

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	268	11.7	407	2	T08732	hypothetical prote
2	263.5	11.5	5175	2	T20992	hypothetical prote
3	263.5	11.5	5198	2	T43290	hemimentin precurs
4	248	10.9	518	2	JC4024	poliovirus recepto
5	247.5	10.8	530	2	A53437	poliovirus recepto
6	244	10.7	417	1	A44194	poliovirus recepto
7	244	10.7	467	1	HLMSP3	poliovirus recepto
8	243	10.6	725	2	JE0099	neural cell adhesi
9	242.5	10.6	538	2	I68093	PRR2 delta - human
10	241.5	10.6	392	2	B44194	poliovirus recepto
11	240	10.5	392	1	RWHUPD	poliovirus recepto
12	240	10.5	417	1	RWHUPA	poliovirus recepto
13	239	10.5	1088	1	IJXLNL	neural cell adhesi
14	230.5	10.1	4162	2	T42633	connectin/titin -
15	230	10.1	344	2	I58551	neurotrimin - rat
16	226	9.9	812	2	B42632	cell adhesion mole
17	226	9.9	932	2	A42632	cell adhesion mole
18	225	9.9	7962	2	I38346	elastic titulin - hu
19	223.5	9.8	1011	2	T13669	neuromusculin - fr
20	223	9.8	725	2	JE0100	neural cell adhesi
21	223	9.8	1092	1	IN0635	neural cell adhesi
22	222	9.7	478	2	I53960	PRR2 alpha - human
23	218.5	9.6	345	2	S03199	opioid-binding pro
24	218.5	9.6	588	2	A45254	surface glycoprote
25	217	9.5	588	2	JH0506	adhesion molecule
26	216.5	9.5	345	2	JC4025	opioid-binding cel
27	216	9.5	765	2	C42632	cell adhesion mole
28	214	9.4	4391	2	A38096	perlecan precursor
29	210.5	9.2	3345	2	JC1239	opioid-binding pro

R;Sulston, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19355
A;Accession: T20992
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-5175 <WIL>
A;Cross-references: UNIPROT:Q810L3; EMBL:Z47068; PIDN:CAA87335.1; GSPDB:GN000028; CESP:F15G9.4b
A;Experimental source: clone F15G9
R;Kershaw, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19929
A;Accession: T24733
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-5175 <W12>
A;Cross-references: EMBL:Z47070; PIDN:CAA87344.1; GSPDB:GN000028; CESP:F15G9.4a
A;Experimental source: clone T09B9
C;Genetics:
A;Gene: CESP:F15G9.4a
A;Map position: X
A;Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/3;
; 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 3033/1
; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4879/1; 4941/1; 5011/1; 5077/1
Query Match 11.5%; Score 263.5; DB 2; Length 5175;
Best Local Similarity 24.6%; Pred. No. 8.2e-10;
Matches 87; Conservative 66; Mismatches 129; Indels 71; Gaps 15;
Qy 52 VTVEGEVATISCOVKNKSDSVIQLLNPRTQTYFRDRLP-----KDSRFOLLNFSSSEL 107
Db 2200 VTAIKGALPFKPID-DDK-----NFKGQIILWLNYPQIDLEAEDARITRL---SNDR 2249
Qy 108 KVSILTNVISDEGRYFCQLYDPPQESYT-TITVLVPPRLMIDIQK-TAVEGEELEVN 165
Db 2250 RLTLNVTENDEGQYSCRKNDAGENSFDFKATVLVPPTIIMLDKKNKTAVEHSTVTL 2309
Qy 166 CTAMASKPATITIRFKG-----NTELKKGSEVEESDMYTTVSOLMLKVHK 211
Db 2310 CPA-TGKPEPDIITWFKGEAHIENIADIIPNGELNG-----NQLKITRIK 2354
Qy 212 EDGVPVICOVEHPAVTGNLTQRYLEVQYKPOVH---IQMTYPLQGLTREGDALELTCE 268
Db 2355 EGDAGKYTCBADNSA--GSVEQDVNNVITIPKIEKDGPDSYESQ-----QNERVWISCP 2408
Qy 269 AIGKPOQVMVTVRVDDEMPQHVL-----SGPNLFINNLANKTNGTYRCASNIVGKAHS 324
Db 2409 VYARP-PAKITLWLAGKPLQSDKFVKTSAHQKLYLFKLRDTSSKYTCIATNEAGTDKR 2467
Qy 325 DYMLYVYDPTTIPP-----PTTTTTTTTTTTTTTTTTTTTTITIDSRAGE 365
Db 2468 DFKVSMVLVAFSDFEPNIVRITVNSGNPSTLHCPAKGSPSPPTITWLKDGNAIE 2520
RESULT 3
T43290
hemiscetin precursor - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jul-2004
C;Accession: T43290; T20993; T24734
R;Vogel, B.E.; Hedgecock, E.M.
submitted to the EMBL Data Library, June 1998
A;Description: Hemiscetin is required for hemidesmosome mediated cell adhesion and germ-
A;Reference number: Z22396
A;Accession: T43290
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: mRNA
A;Residues: 1-5198 <VOG>
A;Cross-references: UNIPROT:O76518; EMBL:AF074901; PIDN:AAC26792.1
R;Sulston, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19355
A;Accession: T20993

A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-5198 <WIL>
A;Cross-references: EMBL:Z47068; PIDN:CAA87336.1; GSPDB:GN000028; CESP:F15G9.4b
A;Experimental source: clone F15G9
R;Kershaw, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19929
A;Accession: T24734
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-5198 <W12>
A;Cross-references: EMBL:Z47070; PIDN:CAA87345.1; GSPDB:GN000028; CESP:F15G9.4b
A;Experimental source: clone T09B9
C;Genetics:
A;Gene: him-4; F15G9.4b
A;Map position: X
A;Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/3;
; 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 3033/1
; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4902/1; 4964/1; 5034/1; 5100/1
Query Match 11.5%; Score 263.5; DB 2; Length 5198;
Best Local Similarity 24.6%; Pred. No. 8.3e-10;
Matches 87; Conservative 66; Mismatches 129; Indels 71; Gaps 15;
Qy 52 VTVEGEVATISCOVKNKSDSVIQLLNPRTQTYFRDRLP-----KDSRFOLLNFSSSEL 107
Db 2200 VTAIKGALPFKPID-DDK-----NFKGQIILWLNYPQIDLEAEDARITRL---SNDR 2249
Qy 108 KVSILTNVISDEGRYFCQLYDPPQESYT-TITVLVPPRLMIDIQK-TAVEGEELEVN 165
Db 2250 RLTLNVTENDEGQYSCRKNDAGENSFDFKATVLVPPTIIMLDKKNKTAVEHSTVTL 2309
Qy 166 CTAMASKPATITIRFKG-----NTELKKGSEVEESDMYTTVSOLMLKVHK 211
Db 2310 CPA-TGKPEPDIITWFKGEAHIENIADIIPNGELNG-----NQLKITRIK 2354
Qy 212 EDGVPVICOVEHPAVTGNLTQRYLEVQYKPOVH---IQMTYPLQGLTREGDALELTCE 268
Db 2355 EGDAGKYTCBADNSA--GSVEQDVNNVITIPKIEKDGPDSYESQ-----QNERVWISCP 2408
Qy 269 AIGKPOQVMVTVRVDDEMPQHVL-----SGPNLFINNLANKTNGTYRCASNIVGKAHS 324
Db 2409 VYARP-PAKITLWLAGKPLQSDKFVKTSAHQKLYLFKLRDTSSKYTCIATNEAGTDKR 2467
Qy 325 DYMLYVYDPTTIPP-----PTTTTTTTTTTTTTTTTTTTTTITIDSRAGE 365
Db 2468 DFKVSMVLVAFSDFEPNIVRITVNSGNPSTLHCPAKGSPSPPTITWLKDGNAIE 2520
RESULT 4
JC4024
poliovirus receptor-related protein precursor - human
C;Species: Homo sapiens (man)
C;Date: 13-Jun-1995 #sequence_revision 14-Jul-1995 #text_change 05-Nov-1999
C;Accession: JC4024
R;Lopez, M.; Eberle, F.; Mattei, M.G.; Gabert, J.; Birg, F.; Bardin, F.; Maroc, C.; Dubre
Gene 155, 261-265, 1995
A;Title: Complementary DNA characterization and chromosomal localization of a human gene
A;Reference number: JC4024; MUID:95237621; PMID:7721102
A;Accession: JC4024
A;Molecule type: mRNA
A;Residues: 1-518 <LOP>
A;Cross-references: EMBL:X76400; NID:g732795; PIDN:CAA53980.1; PID:g732796
C;Genetics:
A;Gene: GDB:PVRR1
A;Cross-references: GDB:583951
A;Map position: 11q23-11q24
C;Superfamily: poliovirus receptor; immunoglobulin homology
C;Keywords: glycoprotein; transmembrane protein
F;1-30/Domain: signal sequence #status predicted <SIG>
F;31-518/Product: poliovirus receptor-related protein #status predicted <MAT>
F;356-379/Domain: transmembrane #status predicted <TMW>

F:36,72,82,139,287,308,333/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 10.9%; Score 248; DB 2; Length 518;
Best Local Similarity 25.4%; Pred. No. 5.3e-10;
Matches 105; Conservative 60; Mismatches 154; Indels 94; Gaps 20;

QY 74 IQLNPNRQTIYPRDFRPLKDSRFLNFSSELKSVLTNVSISDEGRYFCOLYDTP-- 131
DB VAIYNPMGVSVLAPYR-----ERVEFLRPSFTDITRLSRLEDEDEGVYICEFATPTGN 133

QY 132 QESYTTITVLVPPNLMIDIKO-TAVEGEEIEV---NCTAMASKPATTIRWFKGNTELK 187
DB RESQLNLTVMKPTNWTIEGTQAVLRAKKGDQDKVLVATCTISANGKPPSVVSW---ETRLK 190

QY 188 GKSEV--EWSDM--YVTSQMLKVKHEDGCVPIQVEHPATGNLQORY-----LE 238
DB GEARVPDGSCTPMAPVTVISRYRLVPSREAHQQSLACIV-----NYHMDRFKESITLN 243

QY 239 VOYKPOVHIQ---MTYPLQGLTREGDALETCGAIKGPQPMVMTWVRVDDMPQHAVLSG 295
DB VQVEPEVTIEGFGDGNWYLRMD-----VKLTCKADANPPATEYHWTTLNGLPKGVBAQN 298

QY 296 PNLFINN-LNKDNTGYRCEASINIVGKAHSDYMLYVYDPTTIPPTTTTTTTTTTTI 354
DB RTLFFKGPINYSLAGTVICENATNIGTRSGQVEVNIETFPVTPSPPE----- 345

QY 355 LTIITDSRAGEEGSIRAVDHVIGGVAVVAFMCLLIILGRYFA-----RH--KGYFT 408
DB 346 -----HGRAG-----FVPTAIIIGVAGSI-----LLVLIVGGIVVVALRRRHTFKGDYST 392

QY 409 -----HEAKGA-----DQADADTAIINAEGGQNNSEKKE 439
DB 393 KKHVYGNYSKAGIPQHHHPMAQNLIQYDDSDDEKKA--GPLGGSYYEEBEE 443

RESULT 5
A53437
poliovirus receptor mpvr - mouse
C:Species: Mus musculus (house mouse)
C>Date: 06-Oct-1994 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C:Accession: A53437
R:Aoki, J.; Koike, S.; Ise, I.; Sato-Yoshida, Y.; Nomoto, A.
J. Biol. Chem. 269, 8431-8438, 1994
A>Title: Amino acid residues on human poliovirus receptor involved in interaction with P
A:Reference number: A53437; MUID:94179228; PMID:8132569
A:Accession: A53437
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-530 <AOK>
A:Cross-references: UNIPROT:P32507; GB:D26107; NID:9475017; PIDN:BAA05103.1; PID:9825507
A:Experimental source: C57/BL6, brain
A>Note: sequence extracted from NCBI backbone (NCBIN:146664, NCBI:P:146667)
C:Superfamily: poliovirus receptor; immunoglobulin homology
F:47-133/Domain: immunoglobulin homology <IMM>

Query Match 10.8%; Score 247.5; DB 2; Length 530;
Best Local Similarity 22.1%; Pred. No. 6e-10;
Matches 91; Conservative 63; Mismatches 166; Indels 91; Gaps 14;

QY 15 AAAAAAPG-----LRRLULLLFSAAALPTGQGNLFTKQVTVIEGV---ATISQV 66
DB 2 ARAVLPPSLPTLPPLPLLL-----LIQETGAQDVRVRVLPVVRGLGGTVLPCHL 56

QY 67 -----NKSDSVIQLNPNRQTIYPRDFRPLKDSRFQL-----LNPSS 105
DB 57 LPPTTIRVSVQVQLDGTVAAPHPS-----FGVDFFNSQFSKDRLSFVRARPEINADLR 112

QY 106 ELKVSLTNVISDGRYFCOLYDTP--PQESYTTITVLVPPNLMIDIKDTAVEGEEIE 163
DB 113 DATLAFRLGRVDEGNTCTCFATPENGTRRGVTLWLVIAQPN-----HAAQAEVT 163

QY 164 V-----NCTAMASKPATTIRFKG-NTELKSGSEVSEWSDMYTTSQMLKVKHEDD 214

Db 164 IGQSVAVARCVSTGGPPRARIITWISSLGGEAKDTQEPGIQAGTIVTIISRYSLVPVGRAD 223

QY 215 GVPVICQVEHPAVTGNLQORYLEVQYKPOVHIQMTYPLQGLTREGDALELTCAIAKQP 274
Db 224 GVKVTCRVEHSPPEPILLPVTLSVRYPEVPSIS-GYDDNWNLYGRSEAI-LTCDVRSNPE 281

QY 275 PVMVTVVRVDDMPQHAVLSGPNLFNINLKNKTNGTYRCEASINIVGKAHSDYMLYVYDPP 334
Db 282 PTDYDSTTSQGVFPASAVAQGSQSLVHSDVMWNTTIFCTATNAVGTGRAEQVTLVRESP 341

QY 335 TITPPPTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHVIGGVAVVAVV 385
Db 342 ST-----AGAGATGGI-----IGGIATAII 361

RESULT 6
A44194
poliovirus receptor (clone AGM-alpha-1) - green monkey
C:Species: Cercopithecus aethiops (green monkey, grivet)
C>Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C:Accession: A44194
R:Koike, S.; Ise, I.; Sato, Y.; Yonekawa, H.; Gotoh, O.; Nomoto, A.
J. Virol. 66, 7059-7066, 1992
A>Title: A second gene for the African green monkey poliovirus receptor that has no puta
A:Reference number: A44194; MUID:93059651; PMID:1331508
A:Accession: A44194
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-417 <KOI>
A:Cross-references: UNIPROT:P32506; GB:948777
C:Superfamily: poliovirus receptor; immunoglobulin homology
C:Keywords: transmembrane protein
F:259-314/Domain: immunoglobulin homology <IMM>

Query Match 10.7%; Score 244; DB 2; Length 417;
Best Local Similarity 23.5%; Pred. No. 7.8e-10;
Matches 108; Conservative 70; Mismatches 192; Indels 90; Gaps 18;

QY 13 AAAAAAAPGLRLRLULLLFSAAALPTGQGNLFTKQVTV--IEGEVATISC--QWKN 68
Db 2 ARTWAAAAPP-----LLTLLELSWPPPGTGDIIVQAPQVPGFLGDSVTLPCYLQVPG 55

QY 69 SDDSVIQLNPNR-----QTIYPRDFRPLKDSRFLNFSSELKSVLTNVS-----I 116
Db 56 MEETHVSQLTWSRHSRGSGSMVPHQTQGPYSEPKRLEFVAARLGTBLRDAFLRMFLRV 115

QY 117 SDEGRYFCOLYDTPPQESYTT---ITVLVPPNLMIDIKDTAVEGEEIEV-NCTAMASK 172
Db 116 EDGNTYTC-LFVTFPQGRSVDIWLRLAKPN-TAEVQK-VQLTGKFPVVARCVSTGGR 172

QY 173 PATTIRWFKGNTELKSGSEV---WSDMYTTSQMLKVKHEDDGVPIQVEHPAVT 228
Db 173 PPAHITW---HSDLGGMPTSQAPFLSGTGTVTLSLWILVPSQVQDKSVCKVEHSFE 229

QY 229 GNLQORYLEVQYKPOVHIQMTYPLQGLTREGDALELTCAIGKQPQPMVMTWVRVDDMP 288
Db 230 KPQLLTVNLTVYVPEVPSIS-GYDDNWNLYSQNEA-TLTCDARSNPETGYTNWSTMGPLP 287

QY 289 QHAVLSGPNLFNINLKNKTNGTYRCEASINIVGKAHSDYMLYVYDPTTIPPTTTTTTTT 348
Db 288 PFAVAQAQLIIRPVKPIINTTFCVNTNAGARQALTVQKEGPPSESGHSSN----- 343

QY 349 TTTTITLTITDSRAGEEGSIRAVDHVIGGVAVVAVFAMCLLIIL-----GRYFAHK 403
Db 344 -----IIIFLIGIVILLTLGIGVYFYRSR 369

QY 404 GT-----YFTEAKGADDAADADTAIINAEGGQNNSEKKE 439
Db 370 CSREFLWCHHLSPSSEHASA-----SANGYISYSDVSRE 404

RESULT 7
HLMSF3

poliovirus receptor homolog precursor - mouse
C;Species: Mus musculus domesticus (western European house mouse)
C;Date: 30-Jun-1993 #sequence_revision 30-Jun-1993 #text_change 09-Jul-2004
C;Accession: A38211
R;Morrisson, M.E.; Racaniello, V.R.
J. Virol. 66, 2807-2813, 1992
A;Title: Molecular cloning and expression of a murine homolog of the human poliovirus receptor
A;Reference number: A38211; MUID:92219365; PMID:1560525
A;Accession: A38211
A;Molecule type: DNA
A;Residues: 1-467 <MOR>
A;Cross-references: UNIPROT:P32507; GB:M80206; NID:g199785; PIDN:AAA39734.1; PID:g199786
C;Superfamily: poliovirus receptor; immunoglobulin homology
C;Keywords: duplication; glycoprotein; transmembrane protein
F;1-25/Domain: signal sequence #status predicted <SIG>
F;26-467/Product: poliovirus receptor homolog #status predicted <MAT>
F;26-354/Domain: extracellular #status predicted <EXT>
F;47-133/Domain: immunoglobulin homology <IMM1>
F;167-231/Domain: immunoglobulin homology <IMM2>
F;267-322/Domain: immunoglobulin homology <IMM3>
F;355-374/Domain: transmembrane #status predicted <TMN>
F;375-467/Domain: intracellular #status predicted <INT>
F;54-131,174-229,274-320/Dissulfide bonds: #status predicted
F;128,138,315/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 10.7%; Score 244; DB 1; Length 467;
Best Local Similarity 21.0%; Pred. No. 9e-10;
Matches 101; Conservative 74; Mismatches 201; Indels 104; Gaps 16;

QY 15 AAAAAPPG-----LRRLRLLLFSAAALPTDGGQNLKFTKVTVIEGEV---ATISQCV 66
DB 2 ARAAVLPSPSLPTLPLLL-----LLQETGAQDVRVRLVPLVPRGLGGTVLPCHL 56
QY 67 -----NKSDSVIQLLNRRQTIYFRDRPLKDSRFQ-----LNFS 105
DB 57 LPPTTERKVSQVWRDLGTVVAAAFHPS-----FGVDFPNSQFSKDRLSFVRARPETNADLR 112
QY 106 ELKVSILTNVSIISDEGRYFCQLYTDP--PQESYTTITVLVPPRLMIDIQKDTAVEGEIE 163
DB 113 DATLAFRLGLRVEDEGNYTCEFAFPNGTRGVTLRLVIAQPN-----HAEAQEVT 163
QY 164 V-----NCTAMASKPATTIRWFG-NTELKKGKSEVEWSDMYTTSQMLKVKHKEDD 214
DB 164 IGQSVAVARCVSTGCRPPARITWISSLGGEAKDTEPGIQAQGTVTIISYSLVPPVGRAD 223
QY 215 GVPVICOVEHPATGNLQRYLEVQYKPOVHIQMTYPLQGLTREGDALELTCEAIKPKQ 274
DB 224 GVKVTCRVEHSEEPILLPVLTVSVRYPPVSVIS-GYDDNWYLGSRSEAI-LTCDVRSNPE 281
QY 275 PVMVTWVRVDDEMPQHAVLGGPNLFNNLNKTDNGTYRCASNIVGKAHSDMYLVYVDDP 334
DB 282 PTDYDMSITSGVFPASAVAGSQQLVHSDVMWNTTFCITATNAVGTGRAEQVILVRDTP 341
QY 335 TTIPPTPTTT 392
DB 342 QA-----SR-----DVGPLVWCAVGGTLLVLLAGGFLALI 372
QY 393 IILGRYFARHKGYTFHEAKGADDA-----ADADTAIINAEQQNNSEKKE 439
DB 373 LLRGRRRRRKSPGGGNGDGRSDYDPKTVQVFGNGPVMRSASPEPMRDPDGRDEDEEE 432

RESULT 8
JE0099
neural cell adhesion molecule 1 - African clawed frog
N;Alternate names: N-CAM 1
C;Species: Xenopus laevis (African clawed frog)
C;Date: 19-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C;Accession: JE0099
R;Kudo, M.; Takayama, E.; Tadakuma, T.; Shiokawa, K.
Biochem. Biophys. Res. Commun. 245, 127-132, 1998
A;Title: Molecular cloning of ssd-form neural cell adhesion molecules (N-CAMs) as the ma
A;Reference number: JE0099; MUID:98204770; PMID:9535795

A;Accession: JE0099
A;Molecule type: mRNA
A;Residues: 1-725 <KUD>
A;Cross-references: UNIPROT:O73633; DDBJ:AB008162; NID:g3116226; PIDN:BAAZ5931.1; PID:g3116226
A;Experimental source: heart
C;Comment: This protein mediates and regulates various cell-cell interactions through bot
C;Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu
F;413-475/Domain: immunoglobulin homology <IMM>
F;512-589/Domain: fibronectin type III repeat homology <3FR>

Query Match 10.6%; Score 243; DB 2; Length 725;
Best Local Similarity 26.5%; Pred. No. 1.9e-09;
Matches 90; Conservative 61; Mismatches 147; Indels 42; Gaps 15;

QY 50 KQVTVIEGEVATISG---QVN---KSDDSVIQLLN---PNROTIFRDRFRPLKDSRFQ 99
DB 199 KDIQVIVNVPPIQARQLRVNATAKVAESVVLSCDADGFPDPPEISWLKGEPIEDGE-EK 257
QY 100 LNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPRLMIDIQKDTAVEG 159
DB 258 ISNEDQSEMTIHHVEKDDAEAYSC-IANNQAGEAEATILLKYVAKPKITYVENKTAVEL 316
QY 160 EEIEVNCTAMASKPATTIRW-----FKGNTELKKGKSEVEWSDMYTTSQMLKVKHE 212
DB 317 DEITLTCEA-SGDPIPSITWRTAVRNISSEATLLDGHIVVKEHIRM----SALTLDKIQY 371
QY 213 DQGVPIQVEHPATGNLQRYLEVQYKPOVHIQMTYPLQGLTREGDALELTCEAIGK 272
DB 372 TDAGEYFCIASNP-IGVDMQAM-YFEVQYAPKIR-----GPVVYTWEGPNVITCEVFAH 425
QY 273 POPVMVTWVRVDDEMPQH-----AVLSGP---NLFINLNKTDNGTYRCASNIVGKAHS 324
DB 426 PR-AAVTFWFDGQLLPSSNFSNIKIYSGPTSSSLEVPDSENDFGVNYCTAINTIGHEFS 484
QY 325 DYMLYVDPTPIPPPTTT 364
DB 485 EFILVQADTFSS---PAIRKVEPYSTVMIVFDEPDSTG 521

RESULT 9
I68093
PRR2 delta - human
C;Species: Homo sapiens (man)
C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C;Accession: I68093
R;Berle, F.; Dubreuil, P.; Mattei, M.G.; Devillard, E.; Lopez, M.
Gene 159, 267-272, 1995
A;Title: The human PRR2 gene, related to the human poliovirus receptor gene (PVR), is the
A;Reference number: I53960; MUID:95347610; PMID:7622062
A;Accession: I68093
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-538 <RES>
A;Cross-references: UNIPROT:Q92692; GB:S79172; NID:g1042204; PID:g1042205
C;Genetics:
C;Superfamily: poliovirus receptor; immunoglobulin homology
F;276-331/Domain: immunoglobulin homology <IMM>

Query Match 10.6%; Score 242.5; DB 2; Length 538;
Best Local Similarity 22.6%; Pred. No. 1.4e-09;
Matches 111; Conservative 66; Mismatches 202; Indels 113; Gaps 17;

QY 10 SQCAAAAAAAPPGLRLRLLLFSAAALPTDGGQNLKFTKVTVIEGEVATISGCVNKS 69
DB 2 ARAAALLPSRSPPTLLWPLLLL-----LLETQ-AQDVRVQVLPVVRG-----QLGGT 49
QY 70 DSDVIQLNRP-----NRQTIYFRDRFRPLKDSRF-----QLNFS 104
DB 50 VELPCHLLFPVGLYISLVTWQRPDAPANHQNV--AAFHPKMGSPSPKPGSERLSFVS 107
QY 105 S-----ELKVSILTNVSIISDEGRYFCQLYTDP--POESYTTITVLVPPRLM 149

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Qy      349 TTTTTLITLITDSRAGESSRAVDHAVIGGVAVVFMFLCLLIIL-----GRYPARHK 403
Db      344 -----IIIFILGIVILLTLLGIGVYFYSR 369
::|   | :|:|   |||   |
::|   | :|:|   |||   |

RESULT 11
RWHPUD
poliovirus receptor splice form delta precursor - human
N;Alternate names: poliovirus receptor H2OB
C;Species: Homo sapiens (man)
C;Date: 30-Jun-1993 #sequence_revision 30-Jun-1993 #text_change 09-Jul-2004
C;Accession: A43024; B31496
R;Koike, S.; Horie, H.; Ise, I.; Okitsu, A.; Yoshida, M.; Izuka, N.; Takeuchi, K.; Takegami, Y.; Wimmer, E.; Racaniello, V.R.; Cell 56, 855-865, 1989
A;Title: Cellular receptor for poliovirus: molecular cloning, nucleotide sequence, and expression analysis
A;Reference number: A90910; PMID:89169426; PMID:2538245
A;Accession: B31496
A;Molecule type: mRNA
A;Residues: 1-66,'A',68-392 <MEN>
A;Cross-references: GB:M2406
C;Comment: The normal function of this receptor is unknown. Membrane-bound and soluble forms exist.
C;Genetics:
A;Gene: GDB:PVR; PVS
A;Cross-references: GDB:I20324; OMIM:173850
A;Map position: 19q13.2-19q13.2
A;Introns: 27/1; 143/1; 242/1; 281/2; 331/1
C;Superfamily: poliovirus receptor; immunoglobulin homology
C;Keywords: alternative splicing; duplication; glycoprotein; receptor; transmembrane protein
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-392/Product: poliovirus receptor delta #status predicted <MAT>
F;21-343/Domain: extracellular #status predicted <EXT>
F;42-125/Domain: immunoglobulin homology <IMM1>
F;159-223/Domain: immunoglobulin homology <IMM2>
F;259-314/Domain: immunoglobulin homology <IMM3>
F;344-367/Domain: transmembrane #status predicted <TMN>
F;368-392/Domain: intracellular #status predicted <INT>
F;49-123,166-212,266-312/Disulfide bonds: #status predicted
F;105,120,188,218,237,278,307,313/Binding site: carbohydrate (Asn) (covalent) #status predicted

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	Query Match	10.5%	Score 240;	DB 1;	Length 392;
	Best Local Similarity	25.9%	Pred. No. 1.4e-09;		
	Matches 107;	Conservative 54;	Mismatches 176;	Indels 76;	Gaps 17;
Qy	14	AAAAAAPPGLRLRLILLPSAALIPFGDGNLFKDVTV-----IEGEVATISC- 64			
Db	2	ARAWAAWPLLVLALLVLSWP-----PPTG-----DVVQAPTQVPGFLGDSVTLPCY 50			
Qy	65	-QVNKSDSDSVTLQNLNPNR-----QTIYPRDRFLPKDSRFQLNFFSSSELKVSLTNVS--- 115			
Db	51	LQVENMEVTHVSQLTWTWRHGGSGMAVFHQTGPSYSESKRLEFVAARLGAELRNASLRM 110			
Qy	116	-----ISDEGRYFCQLYTDPPQESYTT-----ITVLVPPRNLMDIQKDTAVEGEIEV-NCT 167			
Db	111	FGLRVEDEGNYTC-LFVTFPGQSRSDIWLRLAKPN--TAEVQK-VQLTGPPVPMARCV 167			
Qy	168	AMASKPATTIRWFKGNTELKGSSEVEW-SDMYTTSQLMLVKHKEDDGPVICOVEHPA 226			
Db	168	STGGRPPAQITWHSDLGGMPTNSQVPGFLSGTVTVTSWLVPSSQVDGKNVTCCKVEHES 227			
Qy	227	VTGNLQTRQYLEVOYKPOVHQLMITYPLOGLTREGDALELTCEAIGKQPQVMTVVRVDDE 286			
Db	228	FEKPOLITVNLVTVYYPPEVSIIS-GYDNNWYLGQNEA-TLTCDARNPEPTGYNNWSTTMGP 285			
Qy	287	MPQHAVLSGPNLFINNLKNTDNGTVRCBASINIVGKAHSDMLYVYDPPPTTIPPTTTTTT 346			

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QY 178 RWFKNTELKSGSEVEWSDMYTTSQMLKVKHKEDGVPVICQVEHPAVTGNLQTOYRL 237
DB 181 RWFKNKELKSGSEVEWSDMYTTSQMLKVKHKEDGVPVICQVEHPAVTGNLQTOYRL 240
QY 238 EVQYKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPN 297
DB 241 EVQYKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPN 300
QY 298 LFNNLNKNTDNGTYRCEASNIQKASDYMVYVDPPTTIPPPPTTTTTTTTTTTTTILTI 357
DB 301 LFNNLNKNTDNGTYRCEASNIQKASDYMVYVDPPTTIPPPPTTTTTTTTTTTTTILTI 360
QY 358 ITDSRAGEEGSIRAVDHAVIGGVAVVVFAMLCIIILGRYFARHKGTYFTHKAGGADDA 417
DB 361 ITDSRAGEEGTIGAVDHAVIGGVAVVVFAMLCIIILGRYFARHKGTYFTHKAGGADDA 420
QY 418 ADADTAIINAEQGNSEKKEYFI 442
DB 421 ADADTAIINAEQGNSEKKEYFI 445

RESULT 4
Q8R5M8
ID Q8R5M8 PRELIMINARY; PRT; 456 AA.
AC Q8R5M8
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE RA175.
GN Name=Igsf4a; Synonyms=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RA175, which is the mouse ortholog of TSLC1, a tumor suppressor gene
RT in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR ENBL; AB064265; BAB83501.2; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurxin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 456 AA; 49787 MW; 3226E866A4BC1C7F CRC64;

Query Match 97.3%; Score 2221; DB 2; Length 456;
Best Local Similarity 95.4%; Pred. No. 3.6e-150;
Matches 435; Conservative 2; Mismatches 5; Indels 14; Gaps 2;

QY 1 MASVLPSSGSOCAAA---AAAAAPPGRLRLRLLLLPFAAALIPFGDGNLFTKDVTVIEG 57
DB 1 MASAVLPSSGSOCAAAVAAVAAAPPGRLRLRLLLLPFAAALIPFGDGNLFTKDVTVIEG 60
QY 58 EVATISQVKNKSDSDSVIQLLNPNRTIYFRDFRLPKDSRFQLNFSSELKVSILTNVIS 117
DB 61 EVATISQVKNKSDSDSVIQLLNPNRTIYFRDFRLPKDSRFQLNFSSELKVSILTNVIS 120
QY 118 DEGRYFCQLYTDPPQBSYTTITLVLPNNLMIDIQKDTAVEGEEIEVNCMTAMASKPATI 177

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RESULT 5

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Q6AYP5
ID Q6AYP5 PRELIMINARY; PRT; 476 AA.
AC Q6AYP5
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Hypothetical protein.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heish F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettaman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butcherfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RA Director MGC Project;
RL Submitted (AUG-2004) to the EMBL/GenBank/DBJ databases.
DR ENBL; BC078966; AAH78966.1; -.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 3.
DR SMART; SM00409; IG; 3.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS00835; IG_LIKE; 3.

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Db 1 MASAVLPSGSCAAAAA... 117
Qy 58 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSSELKVSILTNVSI 117
Db 61 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSSELKVSILTNVSI 120
Qy 118 DEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQDQTAVEGEIEVNCCTAMASKPATI 177
Db 121 DEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQDQTAVEGEIEVNCCTAMASKPATI 180
Qy 178 RWFKNTELKSGSEVEBSWDMYTVTSQMLKVKHEDDGVVPCQVEHPAVTGNLQORYL 237
Db 181 RWFKNTELKSGSEVEBSWDMYTVTSQMLKVKHEDDGVVPCQVEHPAVTGNLQORYL 240
Qy 238 EVQYKPVHQMTPYLOGLTREGDALELTCEAIGKPPQVWVTVVRVDEMPQHAVLSGPN 297
Db 241 EVQYKPVHQMTPYLOGLTREGDALELTCEAIGKPPQVWVTVVRVDEMPQHAVLSGPN 300
Qy 298 LFINLNKNTDNGTYRCEASNIYVKAHSDYMLVYVDPPTTTPPTTTTTTTTTTTTTI 357
Db 301 LFINLNKNTDNGTYRCEASNIYVKAHSDYMLVYVDPPTTTPPTTTTTTTTTTTTTI 363
Qy 358 ITDSRAGEEGSIRAVDHAVIGGVVAVVVFAMLCILIIILGRYFARHKGTYFTHEAKGADDA 417
Db 344 VHSRAGEEGTIGAVDHAVIGGVVAVVVFAMLCILIIILGRYFARHKGTYFTHEAKGADDA 403
Qy 418 ADADTAIINAEGGQNNSEKKEYFI 442
Db 404 ADADTAIINAEGGQNNSEKKEYFI 428

RESULT 8
Q7TNL1
ID Q7TNL1 PRELIMINARY; PRT; 417 AA.
AC Q7TNL1
DT 01-OCT-2003 (Tremblrel. 25, Created)
DT 01-OCT-2003 (Tremblrel. 25, Last sequence update)
DT 25-OCT-2004 (Tremblrel. 28, Last annotation update)
DE Nectin-like molecule 2 (RA175 isoform d).
GN Name=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RC STRAIN=C57BL/6; TISSUE=Brain;
RX MEDLINE=22841094; PubMed=12826663; DOI=10.1074/jbc.M305387200;
RA Shingai T., Ikeda W., Kakunaga S., Morimoto K., Takekuni K., Itoh S.,
RA Satoh K., Takeuchi M., Imai T., Monden M., Takai Y.;
RT "Implications of nectin-like molecule-
RT 2/IGSP4/RA175/SgIGSF/TSLC1/SyncM1 in cell-cell adhesion and
RT transmembrane protein localization in epithelial cells.";
RL J. Biol. Chem. 278.35421-35427(2003).
RN [2]
RN SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY351388; AA002381.1; -
DR EMBL; AB183401; BA330020.1; -
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00294; 4.1m; 1.
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DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_Like; 3.
SQ SEQUENCE 417 AA; 45779 MW; 98500180D37845C2 CRC64;

Query Match
Best Local Similarity 90.7%; Score 2071.5; DB 2; Length 417;
Matches 408; Conservative 1; Mismatches 5; Indels 31; Gaps 2;

Qy 1 MASVLPSSGSCAAAAA... 117
Db 1 MASVLPSSGSCAAAAA... 117
Qy 58 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSSELKVSILTNVSI 117
Db 61 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSSELKVSILTNVSI 120
Qy 118 DEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQDQTAVEGEIEVNCCTAMASKPATI 177
Db 121 DEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQDQTAVEGEIEVNCCTAMASKPATI 180
Qy 178 RWFKNTELKSGSEVEBSWDMYTVTSQMLKVKHEDDGVVPCQVEHPAVTGNLQORYL 237
Db 181 RWFKNTELKSGSEVEBSWDMYTVTSQMLKVKHEDDGVVPCQVEHPAVTGNLQORYL 240
Qy 238 EVQYKPVHQMTPYLOGLTREGDALELTCEAIGKPPQVWVTVVRVDEMPQHAVLSGPN 297
Db 241 EVQYKPVHQMTPYLOGLTREGDALELTCEAIGKPPQVWVTVVRVDEMPQHAVLSGPN 300
Qy 298 LFINLNKNTDNGTYRCEASNIYVKAHSDYMLVYVDPPTTTPPTTTTTTTTTTTTTI 357
Db 301 LFINLNKNTDNGTYRCEASNIYVKAHSDYMLVYVDPPTTTPPTTTTTTTTTTTTTI 363
Qy 358 ITDSRAGEEGSIRAVDHAVIGGVVAVVVFAMLCILIIILGRYFARHKGTYFTHEAKGADDA 417
Db 335 --DSRAGEEGTIGAVDHAVIGGVVAVVVFAMLCILIIILGRYFARHKGTYFTHEAKGADDA 392
Qy 418 ADADTAIINAEGGQNNSEKKEYFI 442
Db 393 ADADTAIINAEGGQNNSEKKEYFI 417

RESULT 9
Q86WB8
ID Q86WB8 PRELIMINARY; PRT; 333 AA.
AC Q86WB8;
DT 01-JUN-2003 (Tremblrel. 24, Created)
DT 01-JUN-2003 (Tremblrel. 24, Last sequence update)
DT 01-MAR-2004 (Tremblrel. 26, Last annotation update)
DE Secretory isoform of TSLC-1.
GN Name=STSLC-1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RN SEQUENCE FROM N.A.
RC TISSUE=Lung;
RA Ito A., Koma Y., Nagano T.;
RL Submitted (OCT-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB094146; BAC66178.1; -
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_Like; 3.
SQ SEQUENCE 333 AA; 36915 MW; D7C1102F46D08492 CRC64;

Query Match
Best Local Similarity 75.1%; Score 1715; DB 2; Length 333;
Matches 331; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAA... 117
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Db 1 MASVLPSSGQCAAAAAAPPGLRLRLLLLLLSAALIPFGDQNLFTKDVTVIEGEVA 60
QY 61 TISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVLSTNVSISDEG 120
Db 61 TISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVLSTNVSISDEG 120
QY 121 RYFCQLYTDPQBSYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCVTAMASKPATTIRWF 180
Db 121 RYFCQLYTDPQBSYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCVTAMASKPATTIRWF 180
QY 181 KGNTELKSGKSEVEWSDMYTTSQMLMKVHKEDDGPVICOVHEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKSGKSEVEWSDMYTTSQMLMKVHKEDDGPVICOVHEHPAVTGNLQRYLEVQ 240
QY 241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKGPQVMVTVWRVDDENPOHVLSGPNLFI 300
Db 241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKGPQVMVTVWRVDDENPOHVLSGPNLFI 300
QY 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLYYV 331
Db 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLYYV 331

RESULT 10
Q80VG4
ID Q80VG4 PRELIMINARY; PRT; 336 AA.
AC Q80VG4;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE A secretion form of SgIGSF/TSLC1 (RA175 isoform e).
GN Name=Igsf4a; Synonyms=RA175, ssgIGSF/stSLC1;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Spleen cell-derived;
RX MEDLINE=9927253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB092414; BAC66173.1; -
DR EMBL; AB183402; BAD30021.1; -
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00408; Igc2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 336 AA; 73155 MW; 9EF3D8B8BE5E8F72 CRC64;

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Query Match 73.7%; Score 1683.5; DB 2; Length 336;
Best Local Similarity 97.9%; Pred. No. 5.6e-112;
Matches 327; Conservative 0; Mismatches 4; Indels 3; Gaps 1;

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QY 1 MASVLPSSGQCAAAA-----AAAAAPPGLRLRLLLLLLSAALIPFGDQNLFTKDVTVIEG 57
Db 1 MASVLPSSGQCAAAA-----AAAAAPPGLRLRLLLLLLSAALIPFGDQNLFTKDVTVIEG 60
QY 58 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVLSTNVSIS 117
Db 61 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVLSTNVSIS 120

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QY 118 DEGRYFCQLYTDPQBSYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCVTAMASKPATTI 177
Db 121 DEGRYFCQLYTDPQBSYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCVTAMASKPATTI 180
QY 178 RWPFGKGNTELKSGKSEVEWSDMYTTSQMLMKVHKEDDGPVICOVHEHPAVTGNLQRYL 237
Db 181 RWPFGKGNTELKSGKSEVEWSDMYTTSQMLMKVHKEDDGPVICOVHEHPAVTGNLQRYL 240
QY 238 EVQYKQVHIQMTYPIQGLTREGDALELTCEAIGKGPQVMVTVWRVDDENPOHVLSGPN 297
Db 241 EVQYKQVHIQMTYPIQGLTREGDALELTCEAIGKGPQVMVTVWRVDDENPOHVLSGPN 300
QY 298 LFTNNLNKTDNGTYRCEASNIVGKAHSDYMLYYV 331
Db 301 LFTNNLNKTDNGTYRCEASNIVGKAHSDYMLYYV 334

RESULT 11
Q9D6E7
ID Q9D6E7 PRELIMINARY; PRT; 336 AA.
AC Q9D6E7;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched
DE library, clone:2900073G06 product:immunoglobulin superfamily, member
DE 4, full insert sequence.
GN Name=Igsf4;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=9927253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RA The FANTOM Consortium.
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
RN [4]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
RT "Normalization and subtraction of cap-trapper-selected cDNAs to
RT prepare full-length cDNA libraries for rapid discovery of new genes.";
RL Genome Res. 10:1617-1630(2000).
RN [5]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto S., Ikegami T., Sakaguchi H., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,

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DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig_c2.
DR InterPro; IPR003598; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
SQ SEQUENCE 306 AA; 33522 MW; A4CE37B0F23554D5 CRC64;

Query Match 65.9%; Score 1503.5; DB 2; Length 306;
Best Local Similarity 94.8%; Pred. No. 3.5e-99;
Matches 290; Conservative 2; Mismatches 3; Indels 11; Gaps 1;

QY 148 MIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKGNTELKKGSEVEWSDMYTTSQML 207
Db 1 MIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKGNTELKKGSEVEWSDMYTTSQML 60

QY 208 KVHKEDDGVFVICQVEHPAVTGNLQRYLEYVQKQVHIQMTYPLQGLTREGDALELTC 267
Db 61 KVHKEDDGVFVICQVEHPAVTGNLQRYLEYVQKQVHIQMTYPLQGLTREGDALELTC 120

QY 268 EAIGKQPQVMVTVRVDDEMPQHAVLGGPNLFINNLKNTDNGTYRCEASNVGKAHSDYM 327
Db 121 EAIGKQPQVMVTVRVDDEMPQHAVLGGPNLFINNLKNTDNGTYRCEASNVGKAHSDYI 180

QY 328 LYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 376
Db 181 LYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 240

QY 377 IGGVAVVVFAMLCILILGRYFARHKGTFTTAEKAGDAADADTAIINAEQGQNNSEE 436
Db 241 IGGVAVVVFAMLCILILGRYFARHKGTFTTAEKAGDAADADTAIINAEQGQNNSEE 300

QY 437 KKEYFI 442
Db 301 KKEYFI 306

RESULT 14
Q9QYL6 PRELIMINARY; PRT; 295 AA.
AC Q9QYL6;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RAI75A.
GN Name=igsf4a; Synonyms=ral75a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021964; BAA87914.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Neurexin-like.
DR Pfam; PF00047; ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.

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DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
SQ SEQUENCE 295 AA; 32347 MW; FDD9E8145C6B971B CRC64;

Query Match 65.0%; Score 1483; DB 2; Length 295;
Best Local Similarity 95.9%; Pred. No. 9.7e-98;
Matches 283; Conservative 3; Mismatches 9; Indels 0; Gaps 0;

QY 148 MIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKGNTELKKGSEVEWSDMYTTSQML 207
Db 1 MIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKGNTELKKGSEVEWSDMYTTSQML 60

QY 208 KVHKEDDGVFVICQVEHPAVTGNLQRYLEYVQKQVHIQMTYPLQGLTREGDALELTC 267
Db 61 KVHKEDDGVFVICQVEHPAVTGNLQRYLEYVQKQVHIQMTYPLQGLTREGDALELTC 120

QY 268 EAIGKQPQVMVTVRVDDEMPQHAVLGGPNLFINNLKNTDNGTYRCEASNVGKAHSDYM 327
Db 121 EAIGKQPQVMVTVRVDDEMPQHAVLGGPNLFINNLKNTDNGTYRCEASNVGKAHSDYI 180

QY 328 LYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 387
Db 181 LYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 240

QY 388 MLCLLIILGRYFARHKGTFTTAEKAGDAADADTAIINAEQGQNNSEEKEYFI 442
Db 241 MLCLLIILGRYFARHKGTFTTAEKAGDAADADTAIINAEQGQNNSEEKEYFI 295

RESULT 15
Q9QYL5 PRELIMINARY; PRT; 289 AA.
AC Q9QYL5;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RAI75B.
GN Name=igsf4a; Synonyms=ral75b;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021965; BAA87915.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.

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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:38:22 ; Search time 118.548 Seconds
(without alignments)
1442.016 Million cell updates/sec

Title: US-10-622-237-2

Perfect score: 2283

Sequence: 1 MASVLPSSQCAAAAAA.....AIIAEGQNNSEKEYFI 442

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A Geneseq_16Dec04:*

1: geneseqp1980s:*

2: geneseqp1980s:*

3: geneseqp2000s:*

4: geneseqp2001s:*

5: geneseqp2002s:*

6: geneseqp2003as:*

7: geneseqp2003bs:*

8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2283	100.0	442	3 AAB25619	Aab25619 Protein e
2	2283	100.0	442	3 AAY94341	Aay94341 Human cel
3	2283	100.0	442	3 AAY45092	Aay45092 Human lym
4	2283	100.0	442	5 AAE19887	Aae19887 Human tum
5	2283	100.0	442	5 ABP62825	Abp62825 Human pol
6	2283	100.0	442	6 ADA27144	Ada27144 Human nov
7	2283	100.0	442	7 ADE54238	Ade54238 Human pro
8	2283	100.0	442	8 ADE86685	Ade86685 Novel hum
9	2280	99.9	442	6 ABO07196	Abo07196 Human p53
10	2280	99.9	442	6 ABO07231	Abo07231 Human p53
11	2280	99.9	442	7 ADE61605	Ade61605 Human pro
12	2280	99.9	442	7 ADE61608	Ade61608 Human pro
13	2263	99.1	440	2 AAY17830	Aay17830 Human PRO
14	2263	99.1	440	3 AAB01321	Aab01321 Human PRO
15	2263	99.1	440	4 AAU29040	Aau29040 Human PRO
16	2263	99.1	440	6 ABU58416	Abu58416 Human PRO
17	2263	99.1	440	6 ABU87964	Abu87964 Novel hum
18	2263	99.1	440	6 ABUR4279	Abu84279 Human sec
19	2263	99.1	440	6 ABR66153	Abr66153 Human sec
20	2263	99.1	440	6 ABR65543	Abr65543 Human sec
21	2263	99.1	440	6 ABU99483	Abu99483 Human sec
22	2263	99.1	440	6 ABU55930	Abu55930 Human sec
23	2263	99.1	440	6 ABUR2722	Abu82722 Human PRO
24	2263	99.1	440	6 ABR98843	Abr89843 Novel hum
25	2263	99.1	440	6 ABR68092	Abr68092 Human sec

ALIGNMENTS

RESULT 1

AAB25619 standard; protein; 442 AA.

XX AAB25619;

XX AC AAB25619;

XX DT 21-NOV-2000 (first entry)

XX DE Protein encoded by human secreted protein gene #11.

XX KW Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;

XX KW antirheumatic; dermatological; antiproliferative; antiarteriosclerotic;

XX KW anticancer; vulnary; antiviral; antibacterial; antifungal;

XX KW immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;

XX KW multiple sclerosis; inflammatory disorder; inflammatory bowel disease;

XX KW Crohn's disease; nephritis; hyperproliferative disorder;

XX KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;

XX KW melanoma; lymphoma; wound healing; human.

XX OS Homo sapiens.

XX WO200029435-A1.

XX PD 25-MAY-2000.

XX PF 27-OCT-1999; 99WO-US025031.

XX PR 28-OCT-1998; 98US-0105971P.

XX PA (HUMA-) HUMAN GENOME SCI INC.

XX PI Ni J, Ruben SM, Olsen HS, Young PE, Kenny JJ, Moore PA, Wei Y;

XX PI Greene JW;

XX DR WPI; 2000-387742/33.

XX PT Isolated nucleic acid molecules encoding human secreted proteins are used

XX PT for the prevention, amelioration and treatment of autoimmune,

XX PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,

XX PT wounds, and infectious diseases.

XX PS Disclosure; Page 182-183; 803pp; English.

XX CC The present invention relates to 12 secreted human proteins and the

XX CC nucleotide sequences encoding them. The polynucleotide sequences given in

XX CC AAA80606-A80623 encode the 12 secreted protein sequences given in

XX CC AAB25576-B25593. The human secreted proteins have various activities

XX CC dependent on the tissues in which they are expressed. Examples of the

Abu96145 Novel hum
Abu92576 Human sec
Abo08653 Human sec
Abo02705 Human sec
Abr74859 Human sec
Abr94621 Human sec
Abu60240 Human PRO
Abu85594 Human PRO
Abu98754 Novel hum
Abu97969 Novel hum
Abu91675 Novel hum
Abu83368 Human PRO
Abu86209 Human sec
Abu67422 Human sec
Abu80450 Human PRO
Abr99368 Human sec
Abr98758 Human sec
Abo16281 Human sec
Abr92181 Human sec
Abo18822 Human sec

CC	activities of the proteins include: immunosuppressant; anti-inflammatory;
CC	antiarthritic; antirheumatic, dermatological; antiproliferative;
CC	antiarteriosclerotic; anticancer; vulnary; antiviral; antibacterial;
CC	and antifungal activity. The proteins, polypeptides, agonists and
CC	antagonists may be used to treat prevent and/or diagnose various disease,
CC	disorders and conditions examples of which include: immune disorders e.g.
CC	Addison's disease, rheumatoid arthritis, dermatitis, and multiple
CC	sclerosis; inflammatory disorders e.g. inflammatory bowel disease,
CC	Crohn's disease and nephritis; hyperproliferative disorders such as
CC	paraproteinaemias and purpura; cardiovascular disorders e.g. coronary
CC	arteriosclerosis and myocarditis; cancer e.g. melanoma and lymphoma. The
CC	proteins and polynucleotide sequences may also be used in wound healing
CC	and the treatment of infectious diseases. The human secreted protein gene
CC	#11 and protein sequences are represented in sequences AAA80616 and
CC	AA825586. Sequences AAA80677-A80682 represent genes related to the
CC	secreted protein gene#11
CC	
XX	Sequence 442 AA;
SQ	
Query Match	
Best Local Similarity 100.0%; Score 2283; DB 3; Length 442;	
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	1 MASVVLPSGSCAAAAAAPPGLRLRLRLLLLFSAALIPITGDSGNLFTKDVTVIEGVA 60
Db	1 MASVVLPSGSCAAAAAAPPGLRLRLRLLLLFSAALIPITGDSGNLFTKDVTVIEGVA 60
Qy	61 TISQVNVKSDSVIQLNPNRQTIYFRDFRLPKDSRFOLLNPFSSSELKVSITNVSISDEG 120
Db	61 TISQVNVKSDSVIQLNPNRQTIYFRDFRLPKDSRFOLLNPFSSSELKVSITNVSISDEG 120
Qy	121 RYFQLYTDPPQESYTTITVLVPPNLMIDIQKOTAVEGEIEVNCITAMASKPATTIRWF 180
Db	121 RYFQLYTDPPQESYTTITVLVPPNLMIDIQKOTAVEGEIEVNCITAMASKPATTIRWF 180
Qy	181 KGNTLKGKSVESWSDMYTTSQMLKVKHEDDGPVVICQVEHPAVTGNLTQRYLEVQ 240
Db	181 KGNTLKGKSVESWSDMYTTSQMLKVKHEDDGPVVICQVEHPAVTGNLTQRYLEVQ 240
Qy	241 YKPVHQLQMTYPLQGLTFREGDALELTCEAIGKQPQPMVWVVRVDEMPQHAVLSGNLFI 300
Db	241 YKPVHQLQMTYPLQGLTFREGDALELTCEAIGKQPQPMVWVVRVDEMPQHAVLSGNLFI 300
Qy	301 NNLKNTDNGTYRCASNITVGKAHSDYMLVYVDDPTTIPPPTTTTTTTTTTTTTILITD 360
Db	301 NNLKNTDNGTYRCASNITVGKAHSDYMLVYVDDPTTIPPPTTTTTTTTTTTTTILITD 360
Qy	361 SRAGEEGSIRAVDHAVIGGVVAVVVFAMLCLLIILGRYFARHKGTFTTHEAKGADDAADA 420
Db	361 SRAGEEGSIRAVDHAVIGGVVAVVVFAMLCLLIILGRYFARHKGTFTTHEAKGADDAADA 420
Qy	421 DTAINAEGGQNNSEKKEYFI 442
Db	421 DTAINAEGGQNNSEKKEYFI 442
RESULT 2	
AA94341	
ID	AA94341 standard; protein; 442 AA.
XX	AC
XX	AA94341;
XX	
DT	22-AUG-2000 (first entry)
XX	
DE	Human cell surface receptor protein #8.
XX	
KW	Human; HCSR; cytostatic; antiarthritic; antirheumatic; antiasthmatic;
KW	immunosuppressive; antiarteriosclerotic; antibacterial; antiparasitic;
KW	neuroprotective; nootropic; anticonvulsant; cancer; leukemia; melanoma;
KW	rheumatoid arthritis; asthma; atherosclerosis; akathesia;
KW	Alzheimer's diseases; multiple sclerosis; epilepsy.
XX	
OS	Homo sapiens.

PS Claim 1; Page 81-82; 97pp; English.

XX The present sequence is a novel human cell surface receptor protein.

CC (HCSR) designated HCSR-8. The nucleotide sequence was identified in

CC Incyte Clone 312256 from the cDNA library LUNGNOT02, which was made from

CC RNA isolated from lung tissue. A number of Incyte Clones were used to

CC assemble the consensus sequence. BLAST analysis showed that the sequence

CC is homologous to immuno-superfamily protein B12 g3779242. HCSR and its

CC antagonist are useful for preventing or treating disorders associated

CC with decreased or increased expression or activity of HCSR. Such

CC disorders include cancers such as leukaemia and melanoma, immune

CC disorders such as rheumatoid arthritis, asthma and atherosclerosis,

CC bacterial and parasitic infections and neuronal disorders such as

CC ataxia, Alzheimer's disease, multiple sclerosis and epilepsy.

CC Polynucleotides encoding HCRPs may be used as hybridisation probes to

CC diagnose these conditions. Anti-HCSR antibodies may be used as

CC antagonists, as a targeting or delivery mechanism for bringing

CC pharmaceutical agents into contact with cells or tissues expressing HCSR

CC and for diagnosis of HCSR-related disorders. HCSR and its catalytic or

CC immunogenic fragments are useful for drug screening using libraries of

CC compounds

XX

SQ Sequence 442 AA;

Query Match 100.0%; Score 2283; DB 3; Length 442;

Best Local Similarity 100.0%; Pred. No. 8.3e-158; Indels 0; Gaps 0;

Matches 442; Conservative 0; Mismatches 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLILLFSAALIPGTGQNLFTKDVTVIEGEVA 60

Db 1 MASVLPSSGSCAAAAAAPPGLRLRLILLFSAALIPGTGQNLFTKDVTVIEGEVA 60

Qy 61 TISQVKNKSDSVTQLNPNRQTYFRDRPLKDSRFQLLNFSSELKSVLTNVSISDEG 120

Db 61 TISQVKNKSDSVTQLNPNRQTYFRDRPLKDSRFQLLNFSSELKSVLTNVSISDEG 120

Qy 121 RYFCOLYTDPPQESYTTITVLVPPRNLMIDIKDTAVEGEIEVNCCTAMASKPATTIRWF 180

Db 121 RYFCOLYTDPPQESYTTITVLVPPRNLMIDIKDTAVEGEIEVNCCTAMASKPATTIRWF 180

Qy 181 KGNTLKGKSEVSWSDMYTTSQMLKVKHEDDGVPICOVEHPAVTGNLQORYLEVQ 240

Db 181 KGNTLKGKSEVSWSDMYTTSQMLKVKHEDDGVPICOVEHPAVTGNLQORYLEVQ 240

Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIKGPQVMVTVRVVDDEMPQHAVLSGPNLFI 300

Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIKGPQVMVTVRVVDDEMPQHAVLSGPNLFI 300

Qy 301 NNLKNTDNGTYRCASNIYGVKASDYMLYVYDPTTTPPPPTTTTTTTTTTTTTTTTT 360

Db 301 NNLKNTDNGTYRCASNIYGVKASDYMLYVYDPTTTPPPPTTTTTTTTTTTTTTTTT 360

Qy 361 SRAGEGSIRAVDHAVTGGVAVVAVFAMLCILLIILGRYFAHKGTFTFHEAKGADDAADA 420

Db 361 SRAGEGSIRAVDHAVTGGVAVVAVFAMLCILLIILGRYFAHKGTFTFHEAKGADDAADA 420

Qy 421 DTAIINAEAGGQNNSEKKEYFI 442

Db 421 DTAIINAEAGGQNNSEKKEYFI 442

RESULT 3

AAAY45092

ID AAAY45092 standard; protein; 442 AA.

XX

AC AAAY45092;

XX

DT 31-MAY-2000 (first entry)

XX

XX Human lymphoid derived dendritic cell adhesion molecule.

XX Lymphoid derived dendritic cell adhesion molecule; LDCAM; human; B7-1;

KW B7-L1; T cell proliferation; natural killer cell; NK; tumour cell;

KW

KW biological activity; quality control reagent; treatment; inflammation;

KW immune system disorder; autoimmune; viral infection; infectious disease;

XX organ transplant rejection; bone marrow; modulator; immune response.

OS Homo sapiens.

XX

PH Key Location/Qualifiers

FT Domain 1..374

FT Peptide /label= Extracellular_domain

FT Protein 1..38

FT /label= Leader_peptide

FT /label= Mature_human_LDCAM_polypeptide

FT Modified-site 67..69

FT /note= "N-Glycosylation site"

FT Modified-site 101..103

FT /note= "N-Glycosylation site"

FT Modified-site 113..115

FT /note= "N-Glycosylation site"

FT Modified-site 165..167

FT /note= "N-Glycosylation site"

FT Modified-site 304..306

FT /note= "N-Glycosylation site"

FT Modified-site 308..310

FT /note= "N-Glycosylation site"

FT Domain 375..395

FT /label= Transmembrane_domain

FT Domain 396..442

FT /label= Cytoplasmic_domain

XX W0200008158-A2.

XX

PD 17-FEB-2000.

XX

XX 05-AUG-1999; 99WO-US017905.

XX

PR 07-AUG-1998; 98US-0095672P.

XX (IMMUNEX CORP.

XX

XX Baum PR, Fanslow WC;

XX WPI; 2000-205712/18.

DR N-PSDB; AAZ50882.

DR

XX Novel molecules designated LDCAM are capable of altering or modulating T

XX cell function.

XX

PS Claim 7; Page 42-43; 44pp; English.

XX

CC The present amino acid sequence is the human lymphoid derived dendritic

CC cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic

CC cells and displays homology to adhesion molecules, B7-1 and cytoplasmic

CC region of B7-L1. Human LDCAM is expressed in breast, retina, foetal

CC liver, spleen and heart, lung, muscle, placenta, thyroid and lung

CC carcinoma. LDCAM polypeptides interact with T cell surface molecules to

CC alter signalling and inhibits T cell proliferation, bind to themselves

CC and B7L-1, an LDCAM binding protein and increases natural killer (NK)

CC cell populations. It may be used to measure the biological activity and

CC as quality control reagents of LDCAM binding proteins. LDCAM may be used

CC for treating disorders associated with malfunctioning of immune system,

CC inflammation, autoimmune disorders, viral infected cells, infectious

CC diseases and for killing tumour cells. They are also useful for

CC prevention or reducing the effect of organ and bone marrow transplant

CC rejection and for modulating T cell immune responses. LDCAM polypeptides

CC may also be used as carriers for delivering agents attached to T cells or

XX cells bearing B7L-1

XX

SQ Sequence 442 AA;

Query Match 100.0%; Score 2283; DB 3; Length 442;

Best Local Similarity 100.0%; Pred. No. 8.3e-158; Indels 0; Gaps 0;

Matches 442; Conservative 0; Mismatches 0;

XX 07-MAR-2002.
XX
XX
XX 31-AUG-2001; 2001WO-US027093.
XX
XX PR 01-SEP-2000; 2000US-00654935.
XX
XX PA (HYSE-) HYSEQ INC.
XX
XX PI Tang YT, Asundi V, Zhou P, Xue AJ, Ren F, Zhang J, Wang J;
XX PI Zhao QA, Wang D, Liu C, Drmanac RT, Wehrman T;
XX
XX WPI; 2002-583321/62.
XX DR N-PSDB; ABQ93304.
XX
XX New polynucleotide and polypeptides, useful for treatment and diagnosis
XX of Alzheimer's, Parkinson's, Huntington's, amyotrophic lateral
XX sclerosis, immune deficiencies, cancer, autoimmune disorders, multiple
XX sclerosis, diabetes and allergies.
XX
XX Claim 20; SEQ ID NO 262; 284pp + Sequence Listing; English.
XX
XX The invention relates to an isolated polynucleotide (I) comprising one of
XX 245 sequences (ABQ93288-ABQ93532). Treating a condition comprising
XX administering to a mammalian subject a composition comprising the protein
XX (II) encoded by (I) (ABP62809-ABP63053) or an antibody (III) to (II).
XX (I), (II) and (III) are useful for diagnostic evaluation of disorders.
XX (I) is useful for gene therapy of diseases and (II) can be used for
XX therapeutic treatment. Diseases that may be treated include wound healing
XX and tissue repair, burns, central nervous system disorders (e.g.,
XX Alzheimer's, Parkinson's, Huntington's and amyotrophic lateral
XX sclerosis), immune deficiencies, cancer, autoimmune disorders, multiple
XX sclerosis, diabetes and allergies. Note: The sequence data for this
XX patent did not form part of the printed specification, but was obtained
XX in electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 442 AA;
XX
XX Query Match 100.0%; Score 2283; DB 5; Length 442;
XX Best Local Similarity 100.0%; Pred. No. 8.3e-158;
XX Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MASVILFSGSCAAAAAAPPGLRLRLLLLFSAALIPITGQNLFTKDVTVIEGEVA 60
Db 1 MASVILFSGSCAAAAAAPPGLRLRLLLLFSAALIPITGQNLFTKDVTVIEGEVA 60
QY 61 TISQVKNKSDSVIQLLNPRTIYFRDRLKDSRFQLLNFSSELKVSITNVSISDEG 120
Db 61 TISQVKNKSDSVIQLLNPRTIYFRDRLKDSRFQLLNFSSELKVSITNVSISDEG 120
QY 121 RYFQLYTDPQESYTTITLVLPNRLMIDIQKDTAVEGEEIEVNCCTAMASKPATTIRWF 180
Db 121 RYFQLYTDPQESYTTITLVLPNRLMIDIQKDTAVEGEEIEVNCCTAMASKPATTIRWF 180
QY 181 KGNTELKGSVEEWSMDYVTSQMLKVKHEDGVPVICOVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKGSVEEWSMDYVTSQMLKVKHEDGVPVICOVEHPAVTGNLQRYLEVQ 240
QY 241 YKQVHIQMTYPLQGLFREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLFREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFI 300
QY 301 NNLANKTNGTYRCASNIIVGKASDYMVLYVDPPTTIPPTTTTTTTTTTTTTTTTTITD 360
Db 301 NNLANKTNGTYRCASNIIVGKASDYMVLYVDPPTTIPPTTTTTTTTTTTTTTTTTITD 360
QY 361 SRAGEEGSIRAVDHAVIGGVVAVVVFAMLCILLLIILGRYFARHKGTYPTEAKGADDAADA 420
Db 361 SRAGEEGSIRAVDHAVIGGVVAVVVFAMLCILLLIILGRYFARHKGTYPTEAKGADDAADA 420
QY 421 DTAIINAEQGNNSSEKKEYFI 442
XX

Db 421 DTAIINAEQGNNSSEKKEYFI 442
RESULT 6
ADA27144
ID ADA27144 standard; protein; 442 AA.
XX
XX AC ADA27144;
XX
XX DT 20-NOV-2003 (first entry)
XX DE Human novel secreted protein from gene 11 #3.
XX
XX KW cytostatic; antiinflammatory; immunomodulator; neuroprotective;
KW hemostatic; gene therapy; cancer; inflammation; immune disorder;
KW neurological disorder; blood clotting disorder; food additive;
KW preservative; human; secreted protein.
XX
XX OS Homo sapiens.
XX
XX PN US2003055231-A1.
XX PD 20-MAR-2003.
XX PF 29-OCT-2001; 2001US-00984130.
XX PR 28-OCT-1998; 98US-0105971P.
PR 27-OCT-1999; 99WO-US025031.
PR 19-APR-2000; 2000US-0198407P.
PR 30-OCT-2000; 2000US-0243792P.
PR 18-APR-2001; 2001US-00836353.
XX
XX (NIJ)/ NI J.
PA (YOUNG)/ YOUNG P E.
PA (KENN)/ KENNY J J.
PA (OLSE)/ OLSEN H S.
PA (MOOR)/ MOORE P A.
PA (WEIY)/ WEI Y.
PA (GREE)/ GREENE J M.
PA (RUBE)/ RUBEN S M.
PA (LIUD)/ LIU D.
PA (CROC)/ CROCKER P R.
XX
XX NI J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;
XX Ruben SM, Liu D, Crocker PR;
XX WPI; 2003-567103/53.
XX
XX New human secreted nucleic acid molecules and polypeptides, useful for
XX preventing, treating, or ameliorating a medical condition, such as
XX cancer, inflammation, immune disorders, neurological and blood clotting
XX disorders.
XX
XX Disclosure; Page 72; 454pp; English.
XX
XX The invention relates to an isolated nucleic molecule that is at least
XX 95% identical to 18 human cDNA sequences representing 12 novel genes
XX encoding secreted proteins or a polynucleotide fragment of the cDNA
XX sequence contained in American Type Culture Collection (ATCC) deposit No.
XX defined in the specification, its species homologue, a variant or allelic
XX variant of the polynucleotide having a polynucleotide capable of
XX hybridizing under conditions the polynucleotide, where the polynucleotide
XX does not hybridise under stringent conditions to a nucleic acid molecule
XX having a nucleotide sequence of only A or T residues. Also included are
XX recombinant vectors, host cells (for producing the polypeptide), the
XX secreted polypeptide (comprising a sequence that is at least 95%
XX identical to a polypeptide fragment, domain, epitope, full-length
XX protein, variant, allelic variant or species homologue), antibodies that
XX specifically bind to the polypeptides, diagnosing, treating, preventing
XX or ameliorating a medical condition by administering the polynucleotide
XX or the polypeptide, the gene corresponding to the cDNA sequence and
XX identifying an activity in a biological assay (by expressing the cDNA
XX sequence in a cell, isolating the supernatant, and detecting an activity

CC in a biological assay and identifying the protein in the supernatant
CC having the activity). The polypeptides, nucleic acids and antibodies are
CC useful for diagnosing a pathological condition or a susceptibility to a
CC pathological condition, for preventing, treating, or ameliorating a
CC medical condition, such as cancer, inflammation and other immune
CC disorders, neurological and blood clotting disorders (many examples are
CC given in the specification). The nucleic acids are also useful for
CC chromosome identification, radiation hybrid mapping or long-range
CC restriction mapping. The polypeptides and antibodies are useful for
CC providing immunological probes for differential identification of the
CC tissues immunohistochemistry assays. The polypeptide, polynucleotide,
CC agonist or antagonist may also be used as a food additive or preservative
CC to increase or decrease storage capabilities, fat content or other
CC nutritional components. The present is a secreted protein of the
CC invention.

XX SQ Sequence 442 AA;

Query Match 100.0%; Score 2283; DB 6; Length 442;
Best Local Similarity 100.0%; Pred. No. 8.3e-158;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAPPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAPPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Qy 61 TISQVKNKSDSVIQLLNPNRQTIYFRDPLKDSRFQLNFSSELKVSLSDEG 120
Db 61 TISQVKNKSDSVIQLLNPNRQTIYFRDPLKDSRFQLNFSSELKVSLSDEG 120
Qy 121 RYFCQLYDPPQESYTTITVLVPPRNLMIDIQKDTAVEGSEIEVNCNTAMASKPATIRWF 180
Db 121 RYFCQLYDPPQESYTTITVLVPPRNLMIDIQKDTAVEGSEIEVNCNTAMASKPATIRWF 180
Qy 181 KGNTLKGKSEVEWSDMTVTVSQMLKVHKEDDGPVICOVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTLKGKSEVEWSDMTVTVSQMLKVHKEDDGPVICOVEHPAVTGNLQRYLEVQ 240
Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMTWVRVDDMPQHAVLSGNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMTWVRVDDMPQHAVLSGNLFI 300
Qy 301 NNLKTDNGTYRCEASNIVGKSHSDYMLYVYDPTTIPPTTTTTTTTTTTTTIITD 360
Db 301 NNLKTDNGTYRCEASNIVGKSHSDYMLYVYDPTTIPPTTTTTTTTTTTTTIITD 360
Qy 361 SRAGEGSIKAVDHAVTGGVVAVVVFAMLCILILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIKAVDHAVTGGVVAVVVFAMLCILILGRYFARHKGTYFTHEAKGADDAADA 420
Qy 421 DTALINAEQGNNSKEKEYFI 442
Db 421 DTALINAEQGNNSKEKEYFI 442

RESULT 7

ADE54238

ID ADE54238 standard; protein; 442 AA.

XX AC ADE54238;

XX AC

DT 29-JAN-2004 (first entry)

XX DE

DE Human Protein NP_055148, SEQ ID NO 41.

XX KW

KW Human; pain; neuronal tissue; gene therapy;

KW spinal segmental nerve injury; chronic constriction injury; CCI;

KW spared nerve injury; SNI; Chung.

XX OS

OS Homo sapiens.

XX PN

PN WO2003016475-A2.

XX ,XX

PD 27-FEB-2003.
XX 14-AUG-2002; 2002WO-US025765.
XX 14-AUG-2001; 2001US-0312147P.
PR 01-NOV-2001; 2001US-0346382P.
PR 26-NOV-2001; 2001US-0333347P.
XX (GEHO) GEN HOSPITAL CORP.
PA (FARB) BAYER AG.

XX Woolf C, D'urso D, Befort K, Costigan M;
PI WPI; 2003-268312/26.
XX GENBANK; NP_055148.

PT New composition comprising two or more isolated polypeptides, useful for
PT preparing a medicament for treating pain in an animal.

XX Claim 1; Page; 1017pp; English.

CC The invention discloses a composition comprising two or more isolated rat
CC or human polynucleotides or a polynucleotide which represents a fragment,
CC derivative or allelic variation of the nucleic acid sequence. Also
CC claimed are a vector comprising the novel polynucleotide, a host cell
CC comprising the vector, a method for identifying a nucleotide sequence
CC which is differentially regulated in an animal subjected to pain and a
CC kit to perform the method, an array, a method for identifying an agent
CC that increases or decreases the expression of the polynucleotide sequence
CC that is differentially expressed in neuronal tissue of a first animal
CC subjected to pain, a method for identifying a compound which regulates
CC the expression of a polynucleotide sequence which is differentially
CC expressed in an animal subjected to pain, a method for identifying a
CC compound that regulates the activity of one or more of the
CC polynucleotides, a method for producing a pharmaceutical composition, a
CC method for identifying a compound or small molecule that regulates the
CC activity in an animal of one or more of the polypeptides given in the
CC specification, a method for identifying a compound useful in treating
CC pain and a pharmaceutical composition comprising the one or more
CC polypeptides or their antibodies. The polynucleotide or the compound that
CC modulates its activity is useful for preparing a medicament for treating
CC pain (e.g. spinal segmental nerve injury (Chung), chronic constriction
CC injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
CC therapy). The sequence presented is a human protein (shown in Table 2 of
CC the specification) which is differentially expressed during pain. Note:
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic form directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 442 AA;

Query Match 100.0%; Score 2283; DB 7; Length 442;

Best Local Similarity 100.0%; Pred. No. 8.3e-158;

Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAPPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAPPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Qy 61 TISQVKNKSDSVIQLLNPNRQTIYFRDPLKDSRFQLNFSSELKVSLSDEG 120
Db 61 TISQVKNKSDSVIQLLNPNRQTIYFRDPLKDSRFQLNFSSELKVSLSDEG 120
Qy 121 RYFCQLYDPPQESYTTITVLVPPRNLMIDIQKDTAVEGSEIEVNCNTAMASKPATIRWF 180
Db 121 RYFCQLYDPPQESYTTITVLVPPRNLMIDIQKDTAVEGSEIEVNCNTAMASKPATIRWF 180
Qy 181 KGNTLKGKSEVEWSDMTVTVSQMLKVHKEDDGPVICOVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTLKGKSEVEWSDMTVTVSQMLKVHKEDDGPVICOVEHPAVTGNLQRYLEVQ 240
Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMTWVRVDDMPQHAVLSGNLFI 300
XX

Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFI 300
Qy 301 NNLKTDNGTYRCEASNIHVGKASHDYMLYVDPPTTTPPTTTTTTTTTTTTTTTTT 360
Db 301 NNLKTDNGTYRCEASNIHVGKASHDYMLYVDPPTTTPPTTTTTTTTTTTTTTTTT 360
Qy 361 SRAGEGSIKRAVDHVGAVVGVVAVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIKRAVDHVGAVVGVVAVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy 421 DTAINAEGGQNNSEKKEYFI 442
Db 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 8
ADE86685
ID ADE86685 standard; protein; 442 AA.
XX AC ADE86685;
XX AC ADE86685;
XX AC ADE86685;
DT 29-JAN-2004 (first entry)
XX Novel human secreted protein #11 associated protein #1.
DE human; secreted protein; cancer; liver disorder; hepatitis;
KW human; secreted protein; cancer; liver disorder; hepatitis;
KW neural disorder; Alzheimer's disease.
XX Homo sapiens.
XX OS Homo sapiens.
XX PN US2003129685-A1.
XX PD 10-JUL-2003.
XX 18-APR-2001; 2001US-00836353.
XX 28-OCT-1998; 98US-0105971P.
PR 27-OCT-1999; 99WO-US025031.
PR 19-APR-2000; 2000US-0198407P.
XX (NIJ// NI J.
PA (YOUN// YOUNG P E.
PA (KINN// KENNY J J.
PA (OLSE// OLSEN H S.
PA (MOOR// MOORE P A.
PA (WEIY// WEI Y.
PA (GREE// GREENE J M.
PA (RUBE// RUBEN S M.
XX Ni J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;
PI Ruben SM;
XX WPI; 2004-020335/02.
XX New nucleic acid molecule, useful for preparing a medicament for
PT preventing, treating or ameliorating a medical condition e.g. cancer,
PT liver disorders or neural disorders.
XX Disclosure; SEQ ID NO 136; 380pp; English.
XX The invention relates to an isolated nucleic acid sequence, or its
CC allelic variant, a fragment of the cDNA sequence, or its fragment,
CC domain, epitope or species homologue. The nucleic acid is useful for
CC preparing a medicament for preventing, treating or ameliorating a medical
CC condition e.g., cancer, liver disorders such as hepatitis or neural
CC disorders such as Alzheimer's disease. The present sequence represents
CC the amino acid sequence of a novel human secreted protein associated
CC protein.
XX SQ Sequence 442 AA;
Query Match 100.0%; Score 2283; DB 8; Length 442;
Best Local Similarity 100.0%; Pred. No. 8.3e-158;

Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MASVVLPSGQCQAAAAAAPPGLRLRLRLRLRLRLRLRLRLRLRLRLRLRLRLRL 60
Db 1 MASVVLPSGQCQAAAAAAPPGLRLRLRLRLRLRLRLRLRLRLRLRLRLRLRLRL 60
Qy 61 TISCQVNSKSDSVIQLLNPNRQTIYFRDPRPLKDSFOLLNPFSSSELKVSITNVSISDEG 120
Db 61 TISCQVNSKSDSVIQLLNPNRQTIYFRDPRPLKDSFOLLNPFSSSELKVSITNVSISDEG 120
Qy 121 RYFCQLYTDPQBSYTTITVLVPPRNLMIDIQKDTAVEGSEIEVNCVTAMASKPATTTIRWF 180
Db 121 RYFCQLYTDPQBSYTTITVLVPPRNLMIDIQKDTAVEGSEIEVNCVTAMASKPATTTIRWF 180
Qy 181 KGNTELKKGSEVEWSDMTVTTSQMLKVHKRBDGVPVICQVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKKGSEVEWSDMTVTTSQMLKVHKRBDGVPVICQVEHPAVTGNLQRYLEVQ 240
Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFI 300
Qy 301 NNLKTDNGTYRCEASNIHVGKASHDYMLYVDPPTTTPPTTTTTTTTTTTTTTTTT 360
Db 301 NNLKTDNGTYRCEASNIHVGKASHDYMLYVDPPTTTPPTTTTTTTTTTTTTTTTT 360
Qy 361 SRAGEGSIKRAVDHVGAVVGVVAVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIKRAVDHVGAVVGVVAVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy 421 DTAINAEGGQNNSEKKEYFI 442
Db 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 9
ABO07196
ID ABO07196 standard; protein; 442 AA.
XX AC ABO07196;
XX AC ABO07196;
DT 13-AUG-2003 (first entry)
XX Human p53 modifying protein, SEQ ID 156.
DE Human p53 modifier; cytostatic; cancer; cytostatic; antiangiogenic;
KW antiapoptotic; p53 pathway; breast cancer; colon cancer; kidney cancer;
KW lung cancer; ovarian cancer; angiogenesis; cell cycle;
KW apoptotic disorder; cell proliferation disorder.
XX Homo sapiens.
XX OS Homo sapiens.
XX PN WO200299122-A1.
XX PD 12-DEC-2002.
XX PF 03-JUN-2002; 2002WO-US017382.
XX PF 05-JUN-2001; 2001US-0296076P.
PR 10-OCT-2001; 2001US-0328605P.
PR 15-FEB-2002; 2002US-0357253P.
XX (EXEL-) EXELIXIS INC.
XX Friedman L, Plowman GD, Belvin M, Francis-Lang H, Li D, Funke RP;
XX WPI; 2003-156859/15.
DR N-PSDB; ACD13371.
XX Identifying modulators of the p53 pathway for use in treating apoptotic
PT or cell proliferation disorders, comprises screening for agents that
PT modulate activity of a human ortholog of genes that modify the p53
PT pathway in Drosophila.

XX PS Example 2; Page 469-470; 678pp; English.

XX AC The invention relates to identifying (M1) a candidate p53 pathway

CC modulating agent, by contacting an assay system comprising a purified HM

CC polypeptide (human ortholog of genes that modify the p53 pathway in

CC Drosophila) or nucleic acid with a test agent under conditions, where but

CC for the presence of the test agent, the system provides a reference

CC activity, and detecting a test agent-biased activity of the assay system.

CC Also included are modulating (M2) a p53 pathway of a cell (comprising

CC contacting a cell defective in p53 function with a candidate modulator

CC that specifically binds to a HM polypeptide comprising an HM amino acid

CC sequence, where p53 function is restored), modulating (M3) a p53 pathway

CC in a mammalian cell (comprising contacting the cell with an agent that

CC specifically binds an HM polypeptide or nucleic acid) and diagnosing (M4)

CC a disease in a patient (comprising: (a) obtaining a biological sample

CC from the patient; (b) contacting the sample with a probe for HM

CC expression; (c) comparing the results with a control; and (d) determining

CC whether the comparison indicates a likelihood disease). (M1) is useful

CC for identifying modulators of the p53 pathway. A probe for HM expression

CC is useful for diagnosing breast, colon, kidney, lung and ovarian cancer,

CC in a patient, where the cancer has greater than 25 % expression level.

CC Modulators identified by (M1) are useful in a variety of diagnostic and

CC therapeutic applications, where disease or disorder prognosis is related

CC to defects in the p53 pathway, such as, angiogenesis, apoptotic or cell

CC proliferation disorders (e.g. cancer). Another two new methods (M2 and

CC M3) are useful for modulating the p53 pathway of a cell, thus restoring

CC the p53 function of the cell, so that the cell undergoes normal

CC proliferation or progression through the cell cycle. (M2) and (M3) are

CC also useful for treating defects in the p53 pathway such as angiogenic,

CC apoptotic or cell proliferation disorders. The present sequence

CC represents a human p53 pathway modifying protein

XX SQ Sequence 442 AA;

Query Match 99.9%; Score 2280; DB 6; Length 442;

Best Local Similarity 99.8%; Pred. No. 1.4e-157;

Matches 441; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGQCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIGEVA 60

Db 1 MASVLPSSGQCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIGEVA 60

Qy 61 TISCQVNSDSDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKSVLTNVSISDEG 120

Db 61 TISCQVNSDSDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKSVLTNVSISDEG 120

Qy 121 RYFCQLYTDPPQBSYTTITVLVPPRNLMIDIQKDTAVEGEIEIVNCTAMASKPATIRMF 180

Db 121 RYFCQLYTDPPQBSYTTITVLVPPRNLMIDIQKDTAVEGEIEIVNCTAMASKPATIRMF 180

Qy 181 KGNTLKGKSEVSEWSDMYTTSQMLKVHKEDDGPVICOVEHPATVGNLQTVLEVQ 240

Db 181 KGNTLKGKSEVSEWSDMYTTSQMLKVHKEDDGPVICOVEHPATVGNLQTVLEVQ 240

Qy 241 YKQVHQMTPYIQLGTREGDALELTCEAIKGPQVWTVWRVDDMPQHAVLSGNLFI 300

Db 241 YKQVHQMTPYIQLGTREGDALELTCEAIKGPQVWTVWRVDDMPQHAVLSGNLFI 300

Qy 301 NNLKNTDNGYRCEASNIYKHAHSDYMLVYVDPPTPIPPPTTTTTTTTTTTTTILTIITD 360

Db 301 NNLKNTDNGYRCEASNIYKHAHSDYMLVYVDPPTPIPPPTTTTTTTTTTTTTILTIITD 360

Qy 361 SRAGEGSIKAVDHAVTGGVAVVVFAMLCLLIILGRYFARHKGTYFTEAKGADDAADA 420

Db 361 SRAGEGSIKAVDHAVTGGVAVVVFAMLCLLIILGRYFARHKGTYFTEAKGADDAADA 420

Qy 421 DTAINAEGQNNSEKKEYFI 442

Db 421 DTAINAEGQNNSEKKEYFI 442

ABO07231

ID ABO07231 standard; protein; 442 AA.

XX AC ABO07231;

XX DT 13-AUG-2003 (first entry)

XX DE Human p53 modifying protein, SEQ ID 191.

XX KW Human; p53 modifier; cytostatic; cancer; cytostatic; antiangiogenic; antiapoptotic; p53 pathway; breast cancer; colon cancer; kidney cancer; lung cancer; ovarian cancer; angiogenesis; cell cycle; apoptotic disorder; cell proliferation disorder.

XX OS Homo sapiens.

XX FN WO200299122-A1.

XX PD 12-DEC-2002.

XX PF 03-JUN-2002; 2002WO-US017382.

XX PR 05-JUN-2001; 2001US-0296076P.

XX PR 10-OCT-2001; 2001US-0328605P.

XX PR 15-FEB-2002; 2002US-0357253P.

XX PA (EXEL-) EXELIXIS INC.

XX PI Friedman L, Plowman GD, Belvin M, Francis-Lang H, Li D, Funke RP; WPI; 2003-156859/15.

XX DR N-PSDB; ACD13404.

XX PT Identifying modulators of the p53 pathway for use in treating apoptotic or cell proliferation disorders, comprises screening for agents that modulate activity of a human ortholog of genes that modify the p53 pathway in Drosophila.

XX PS Example 2; Page 557-559; 678pp; English.

XX CC The invention relates to identifying (M1) a candidate p53 pathway modulating agent, by contacting an assay system comprising a purified HM polypeptide (human ortholog of genes that modify the p53 pathway in Drosophila) or nucleic acid with a test agent under conditions, where but for the presence of the test agent, the system provides a reference activity, and detecting a test agent-biased activity of the assay system. Also included are modulating (M2) a p53 pathway of a cell (comprising contacting a cell defective in p53 function with a candidate modulator that specifically binds to a HM polypeptide comprising an HM amino acid sequence, where p53 function is restored), modulating (M3) a p53 pathway in a mammalian cell (comprising contacting the cell with an agent that specifically binds an HM polypeptide or nucleic acid) and diagnosing (M4) a disease in a patient (comprising: (a) obtaining a biological sample from the patient; (b) contacting the sample with a probe for HM expression; (c) comparing the results with a control; and (d) determining whether the comparison indicates a likelihood disease). (M1) is useful for identifying modulators of the p53 pathway. A probe for HM expression is useful for diagnosing breast, colon, kidney, lung and ovarian cancer, in a patient, where the cancer has greater than 25 % expression level. Modulators identified by (M1) are useful in a variety of diagnostic and therapeutic applications, where disease or disorder prognosis is related to defects in the p53 pathway, such as, angiogenesis, apoptotic or cell proliferation disorders (e.g. cancer). Another two new methods (M2 and M3) are useful for modulating the p53 pathway of a cell, thus restoring the p53 function of the cell, so that the cell undergoes normal proliferation or progression through the cell cycle. (M2) and (M3) are also useful for treating defects in the p53 pathway such as angiogenic, apoptotic or cell proliferation disorders. The present sequence represents a human p53 pathway modifying protein

XX SQ Sequence 442 AA;

PS	XX	Best Local Similarity 99.8%; Pred. No. 1.4e-157; Matches 441; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
CC	CC	The invention discloses a composition comprising two or more isolated rat
CC	CC	or human polynucleotides or a polynucleotide which represents a fragment,
CC	CC	derivative or allelic variation of the nucleic acid sequence. Also
CC	CC	claimed are a vector comprising the novel polynucleotide, a host cell
CC	CC	comprising the vector, a method for identifying a nucleotide sequence
CC	CC	which is differentially regulated in an animal subjected to pain and a
CC	CC	kit to perform the method, an array, a method for identifying an agent
CC	CC	that increases or decreases the expression of the polynucleotide sequence
CC	CC	that is differentially expressed in neuronal tissue of a first animal
CC	CC	subjected to pain, a method for identifying a compound which regulates
CC	CC	the expression of a polynucleotide sequence which is differentially
CC	CC	expressed in an animal subjected to pain, a method for identifying a
CC	CC	compound that regulates the activity of one or more of the
CC	CC	polynucleotides, a method for producing a pharmaceutical composition, a
CC	CC	method for identifying a compound or small molecule that regulates the
CC	CC	activity in an animal of one or more of the polypeptides given in the
CC	CC	specification, a method for identifying a compound useful in treating
CC	CC	pain and a pharmaceutical composition comprising the one or more
CC	CC	polypeptides or their antibodies. The polynucleotide or the compound that
CC	CC	modulates its activity is useful for preparing a medicament for treating
CC	CC	pain (e.g. spinal segmental nerve injury (Chung), chronic constriction
CC	CC	injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
CC	CC	therapy). The sequence presented is a human protein (shown in Table 2 of
CC	CC	the specification) which is differentially expressed during pain. Note:
CC	CC	The sequence data for this patent did not form part of the printed
CC	CC	specification, but was obtained in electronic form directly from WIPO at
CC	CC	ftp.wipo.int/pub/published_pct_sequences.
XX	XX	
SQ	SQ	Sequence 442 AA;
Qy	Qy	Query Match 99.9%; Score 2280; DB 7; Length 442;
Db	Db	Best Local Similarity 99.8%; Pred. No. 1.4e-157;
Qy	Qy	Matches 441; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Db	Db	
Qy	Qy	1 MASVLPSSGSCAAAAAAPPGLRLRLRLRLRLRLSAAALIPGDCGNLFTKDVTVIEGEVA 60
Db	Db	1 MASVLPSSGSCAAAAAAPPGLRLRLRLRLRLRLSAAALIPGDCGNLFTKDVTVIEGEVA 60
Qy	Qy	61 TISQVKNKSDSVIQLLNPRTIYFRDPRPKDSRFOLLNFSSELKVSILTNVISDEG 120
Db	Db	61 TISQVKNKSDSVIQLLNPRTIYFRDPRPKDSRFOLLNFSSELKVSILTNVISDEG 120
Qy	Qy	121 RYFCQLYDTPPQESYTTITVLVPPRNLMIDIQDTAVEGEEIEVNCNTAMASKPATIRWF 180
Db	Db	121 RYFCQLYDTPPQESYTTITVLVPPRNLMIDIQDTAVEGEEIEVNCNTAMASKPATIRWF 180
Qy	Qy	181 KGNTELKGKSEVEWSDMYTTSQMLKVKHEDDGVPVICOVEHPAVTGNLQORYLEVQ 240
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Job time : 121.548 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:53:58 ; Search time 112.927 Seconds
(without alignments)
1505.131 Million cell updates/sec

Title: US-10-622-237-2
Perfect score: 2283
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1717557 seqs, 384547976 residues

Total number of hits satisfying chosen parameters: 1717557

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

- Database : Published Applications AA:*
- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
 - 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	2283	100.0	442	10	US-09-984-130-136
4	2283	100.0	442	10	US-09-836-353A-136
5	2283	100.0	442	14	US-10-302-041-20
6	2283	100.0	442	14	US-10-403-107-1
7	2283	100.0	442	15	US-10-015-115-111
8	2283	100.0	442	15	US-10-363-616-262
9	2283	100.0	442	16	US-10-622-237-2
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16	2263	99.1	440	9	US-09-945-587-61	Sequence 61, Appl
17	2263	99.1	440	9	US-09-945-015-61	Sequence 61, Appl
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20	2263	99.1	440	9	US-09-943-762-61	Sequence 61, Appl
21	2263	99.1	440	9	US-09-944-654-61	Sequence 61, Appl
22	2263	99.1	440	9	US-09-943-851A-61	Sequence 61, Appl
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26	2263	99.1	440	9	US-09-944-944-61	Sequence 61, Appl
27	2263	99.1	440	9	US-09-944-929-61	Sequence 61, Appl
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35	2263	99.1	440	14	US-10-174-590-34	Sequence 34, Appl
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39	2263	99.1	440	14	US-10-176-483-34	Sequence 34, Appl
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41	2263	99.1	440	14	US-10-176-914-34	Sequence 34, Appl
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43	2263	99.1	440	14	US-10-173-706-34	Sequence 34, Appl
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45	2263	99.1	440	14	US-10-175-752-34	Sequence 34, Appl

ALIGNMENTS

RESULT 1

US-09-778-510-20
; Sequence 20, Application US/09778510
; Patent No. US20020164686A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-778-510-20

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Best Local Similarity 100.0%; Pred. No. 2.4e-160;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
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; Sequence 2, Application US/09778187B
; Patent No. US20020168712A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/09/778,187B
; CURRENT FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-778-187B-2
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Best Local Similarity 100.0%; Pred. No. 2.4e-160;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Publication No. US2003005231A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P2
; CURRENT APPLICATION NUMBER: US/09/984,130
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 60/243,792
; PRIOR FILING DATE: 2000-10-30
; PRIOR APPLICATION NUMBER: 09/836,353
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-984-130-136
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Query Match 100.0%; Score 2283; DB 10; Length 442;
Best Local Similarity 100.0%; Pred. No. 2.4e-160;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P1
; CURRENT APPLICATION NUMBER: US/09/836,353A
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
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; ORGANISM: Homo sapiens
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Db	121	RYFCQLYDPPQESYTTITVLVPPNRLMIDIQKDTAVEGEIEVNCVTAMASKPATTIRWF	180	
Qy	181	KGNTELKKGSEVEBSWDMYVTVSQMLKVKHKDDGVPVICOVEHPAVTGNLQORYLEVQ	240	
Db	181	KGNTELKKGSEVEBSWDMYVTVSQMLKVKHKDDGVPVICOVEHPAVTGNLQORYLEVQ	240	
Qy	241	YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOPMVMTVRVDEMPQHAVLGSNLF	300	
Db	241	YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOPMVMTVRVDEMPQHAVLGSNLF	300	
Qy	301	NNLNKTDNGTYRCASNIIVGKAHSDYMLVYVDPPTTIPPPTTTTTTTTTTTTTTTT	360	
Db	301	NNLNKTDNGTYRCASNIIVGKAHSDYMLVYVDPPTTIPPPTTTTTTTTTTTTTTTT	360	
Qy	361	SRAGEEGSIRAVDHAVIGGVVAVVVFAMLCLLIILGRYFARHKGTGYFTHAEKAGDADA	420	
Db	361	SRAGEEGSIRAVDHAVIGGVVAVVVFAMLCLLIILGRYFARHKGTGYFTHAEKAGDADA	420	
Qy	421	DTAIINAEGGQNNSEKKKEYI	442	
Db	421	DTAIINAEGGQNNSEKKKEYI	442	

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RESULT 5
US-10-302-041-20
; Sequence 20, Application US/10302041
; Publication No. US2003014478A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Design
; FILE REFERENCE: 2844-US

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:	CURRENT APPLICATION NUMBER:	US/10/302,041
:	CURRENT FILING DATE:	2002-11-21
:	PRIOR APPLICATION NUMBER:	US/09/778,510
:	PRIOR FILING DATE:	2001-02-07
:	PRIOR APPLICATION NUMBER:	PCT/US99/17906
:	PRIOR FILING DATE:	1999-08-05
:	PRIOR APPLICATION NUMBER:	60/095,663
:	PRIOR FILING DATE:	1998-08-07
:	NUMBER OF SEQ ID NOS:	22
:	SOFTWARE:	PatentIn Ver. 2.0
:	SEQ ID NO	20
:	LENGTH:	442
:	TYPE:	PRT
:	ORGANISM:	Homo sapien
:	US-10-302-041-20	
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	Best Local Similarity	100.0%; Pred. No. 2.4e-160;
	Matches 442; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
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Dd	1 MASVLPFGSQCAAAAAAAPPGLRLRLLLLSFAALIPITGDCQNLFTKDVTVIEGEVA	60
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Dd	61 TISQVNKSDSVIQLLNPNRQTIFYRDFRPLKDORFQLNFFSSSELKVSLTNVISDEG	120
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Dd	121 RYFCQLYTDPPQSYTTITVLVPRNLIMIDIOKDTAVEGEEIEVNCETAMASKPATTIRWF	180
Qy	181 KGNTELKGKSEVEBSWDMYTTSOLMLKVHKEDDGVPVICOVERHPATVGNLTORYLEVV	240
Dd	181 KGNTELKGKSEVEBSWDMYTTSOLMLKVHKEDDGVPVICOVERHPATVGNLTORYLEVV	240
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Dd	241 YKPQVHIOMTYPLQGLTREGDALELTCEAI GKPOPVVMVVRVDDEMPQHAVLSGPNLFI	300
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Dd	301 NNLNKTNGTYRCEASINVGKSHSDMYLYVYDPPTTTPPTTTTTTTTTTTTTTTTTIIITD	360
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Dd	361 SRAGEEGSIRADVHAGTVGGVAVVVFVAVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADA	420
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Dd	421 DTAINAEGGQNNSSEKKKEYFI 442	
RESULT 6		
US-10-403-107-1		
Sequence 1, Application US/10403107		
Publication No. US20030165974A1		
GENERAL INFORMATION:		
APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE		
APPLICANT: REEVES, Roger		
APPLICANT: YOSHINORI, Muramaki		
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED I		
FILE REFERENCE: JHU1770-1		
CURRENT APPLICATION NUMBER: US/10/403,107		
CURRENT FILING DATE: 2003-03-28		
PRIOR APPLICATION NUMBER: US/09/930,803		
PRIOR FILING DATE: 2001-08-15		
NUMBER OF SEQ ID NOS: 32		
SOFTWARE: PatentIn version 3.0		
SEQ ID NO 1		
LENGTH: 442		
TYPE: PRT		
ORGANISM: Homo sapiens		

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Db	121	RYFCQLYTDPDPQESYTTITVLVPPNRLMIDIO	180
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Db	181	KGNTLKGKSEVEBSWDMYTVTSQLMLKHKEDD	240
Qy	241	YKPOVHLOMTYPLQGLTRGDALELTCEAIGKP	300
Db	241	YKPOVHLOMTYPLQGLTRGDALELTCEAIGKP	300
Qy	301	NNLKNKTNGTYRCBASNLVKGKSHSDYMLYV	360
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Qy	361	SRAGEEGSIRAVDHAVIGGVVAVVVFAMLC	420
Db	361	SRAGEEGSIRAVDHAVIGGVVAVVVFAMLC	420
Qy	421	DTAIIAEGGQNNSEEKEYFI 442	
Db	421	DTAIIAEGGQNNSEEKEYFI 442	

RESULT 9

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RESULT 9
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; Sequence 2, Application US/10622237
; Publication No. US20040204568A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; APPLICANT: Fanslow III, William C
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/10/622,237
; CURRENT FILING DATE: 2003-07-17
; PRIOR APPLICATION NUMBER: US/09/778,187B
; PRIOR FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 442
; TYPE: prt
; ORGANISM: homo sapiens
; US-10-622-237-2

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Qy	241	YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLGGPNLFI	300
Db	241	YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLGGPNLFI	300
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Db	301	NNLKNKTNDGTYRCEASNVGKAHSDYMLVYVDPTTIPPTTTTTTTTTTTTTTTTTIITD	360
Qy	361	SRAGEEGSIRAVDHAVTGGVAVVVFAMLCLLIILGRYFARHKGTYFTTHEAKGADDAADA	420
Db	361	SRAGEEGSIRAVDHAVTGGVAVVVFAMLCLLIILGRYFARHKGTYFTTHEAKGADDAADA	420
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Db	421	DTAIINAEAGGQNNSEKKEYFI	442

RESULT 10

US-10-898-408-2

; Sequence 2, Application US/10898408

; Publication No. US20050058642A1

; GENERAL INFORMATION:

; APPLICANT: GALIBERT, Laurent J.

; APPLICANT: YAN, Wei

; TITLE OF INVENTION: ANTAGONISTS AND AGONISTS OF LDCAM AND METHODS OF USE

; FILE REFERENCE: 3467-A

; CURRENT APPLICATION NUMBER: US/10/898,408

; CURRENT FILING DATE: 2004-07-23

; PRIOR APPLICATION NUMBER: 60/490,027

; PRIOR FILING DATE: 2003-07-25

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 2

; LENGTH: 442

; TYPE: PRT

; ORGANISM: homo sapiens

US-10-898-408-2

Query Match	100.0.0%; Score 2283; DB 17; Length 442;
Best Local Similarity	100.0%; Pred. No. 2.4e-160;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
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Db	1 MASVVLPSGSCAAAAAAPPGRRLRLLLLLLSAAALPTGQGNLFTKDVTVIGEVA 60
Qy	61 TISQVNVKSDSVIQLLNPNRQTIYFRDFRPLKDSRFQLLNFSSSELKVSLTNVSIISDEG 120
Db	61 TISQVNVKSDSVIQLLNPNRQTIYFRDFRPLKDSRFQLLNFSSSELKVSLTNVSIISDEG 120
Qy	121 RYFCQLYTDPPQPSYTTITVLVPRNLMDIIOKDTAVEGEEIIVNCMTAMASKPATIRWF 180
Db	121 RYFCQLYTDPPQPSYTTITVLVPRNLMDIIOKDTAVEGEEIIVNCMTAMASKPATIRWF 180
Qy	181 KGNTELKGKSEVEBSWSDMYVTTSQMLKVHKEDDGPVICOVSHPAVTGNLQTVYLEVQ 240
Db	181 KGNTELKGKSEVEBSWSDMYVTTSQMLKVHKEDDGPVICOVSHPAVTGNLQTVYLEVQ 240
Qy	241 YKQOVHIQMTYPLQGLTREGDALJELTCEAIGKQOPVMVTVWRVDDDEMPQHAVLSGNLFTI 300
Db	241 YKQOVHIQMTYPLQGLTREGDALJELTCEAIGKQOPVMVTVWRVDDDEMPQHAVLSGNLFTI 300
Qy	301 NNLNKTNDGTYRCEASNIUGKASHDYMVLVYDPPTTIPPTTTTTTTTTTTTTTTTTIITD 360
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Qy	361 SRAGEEGSIRAVDHAVTIGGVVAVVVFAMLCILLIGRYFARHKGTGYTTHEAKGADDAADA 420
Db	361 SRAGEEGSIRAVDHAVTIGGVVAVVVFAMLCILLIGRYFARHKGTGYTTHEAKGADDAADA 420

Qy 301 NNLNKTDGTYRCEASNVGKSHSDYMLVYVDPPTPIPPPTTTTTTTTTTTTTILITD 360
Db 299 NNLNKTDGTYRCEASNVGKSHSDYMLVYVDPPTPIPPPTTTTTTTTTTTTTILITD 358
Qy 361 SRAGEGSIKRAVDHAGVGGVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADA 420
Db 359 SRAGEGSIKRAVDHAGVGGVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADA 418
Qy 421 DTAINAEGQNNSEKKEYFI 442
Db 419 DTAINAEGQNNSEKKEYFI 440

RESULT 15

US-09-944-862-61
; Sequence 61, Application US/09944862
; Patent No. US20020115145A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Geritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,862
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,596
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850

; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020115145A1
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020115145A1
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-862-61

Query Match 99.1%; Score 2263; DB 9; Length 440;
Best Local Similarity 99.5%; Pred. No. 7e-159;
Matches 440; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

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Db 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLFSAALPTGQNLFTKDVTVIEGEVA 58
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Db 59 TISCVNKSDDSVIQLLNPNRTIYFRDPRPLKDSRFQLNFSSELKVSILTNVISDEG 118
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Db 119 RYPCQLYTDPQESYTTITLVPPRNLMIDIQKDTAVEGEIEIVNCTAMASKPATIRWF 178
Qy 181 KGNTLKGKSEVEEWSMDYTVTSQMLKVHKEDDGPVTCOVHPAVTGNLTORYLEVQ 240
Db 179 KGNTLKGKSEVEEWSMDYTVTSQMLKVHKEDDGPVTCOVHPAVTGNLTORYLEVQ 238
Qy 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPHVLGSPNLF 300
Db 239 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPHVLGSPNLF 298

Qy	301	NNLNKTDNGTYRCEASNI	VGKASHDYMLVYDPTT	PPPTTTTTTTTTTTTT	TTTTTTTTTTTTTTTT	360	
Db	299	NNLNKTDNGTYRCEASNI	VGKASHDYMLVYDPTT	PPPTTTTTTTTTTTTT	TTTTTTTTTTTTTTTT	358	
Qy	361	SRAGEGSI	RAVDH	AVIGGVAVVVFAMLC	LLIILGRYFARHKGT	YFTHEAKGADDA	420
Db	359	SRAGEGSI	RAVDH	AVIGGVAVVVFAMLC	LLIILGRYFARHKGT	YFTHEAKGADDA	418
Qy	421	DTAIINAE	GGNNSEEK	KEYFI		442	
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Search completed: June 28, 2005, 10:12:35
Job time : 114.927 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:43:27 ; Search time 30.659 Seconds
(without alignments)
1076.191 Million cell updates/sec

Title: US-10-622-237-2
Perfect score: 2283
Sequence: 1 MASVLPSSGQCAAAAAA.....AIINAEQQNSEKKEYFI 442

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2283	100.0	442	4	US-09-778-510-20
2	2283	100.0	442	4	US-09-930-803-1
3	2263	99.1	440	4	US-09-866-028-61
4	2263	99.1	440	4	US-09-944-457-61
5	2169	95.0	423	4	US-09-778-510-22
6	902	39.5	444	2	US-08-659-984A-5
7	902	39.5	444	3	US-08-660-531-5
8	895.5	39.2	421	2	US-08-659-984A-1
9	895.5	39.2	421	3	US-08-660-531-1
10	745.5	32.7	398	4	US-09-778-510-4
11	739	32.4	398	4	US-09-778-510-6
12	739	32.4	398	4	US-09-907-794A-84
13	739	32.4	398	4	US-09-905-125A-84
14	739	32.4	398	4	US-09-902-775A-84
15	739	32.4	398	4	US-09-906-700-84
16	739	32.4	398	4	US-09-903-603A-84
17	739	32.4	398	4	US-09-904-920A-84
18	739	32.4	398	4	US-09-909-064-84
19	739	32.4	398	4	US-09-905-381A-84
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21	722	31.6	432	4	US-09-778-510-2
22	335	14.7	227	4	US-09-205-258-947
23	256.5	11.2	514	4	US-09-949-016-11380
24	256.5	11.2	517	4	US-09-723-368-4
25	248	10.9	518	4	US-09-919-172-20
26	241	10.6	456	4	US-09-949-016-7564
27	240	10.5	417	4	US-09-949-016-6729

28	234	10.2	522	4	US-09-949-016-7563	Sequence 7563, Ap
29	232	10.2	393	1	US-08-429-742-2	Sequence 2, Appli
30	232	10.2	819	4	US-09-949-016-11044	Sequence 11044, A
31	226	9.9	479	4	US-09-723-368-2	Sequence 2, Appli
32	226	9.9	479	4	US-09-949-016-6278	Sequence 6278, Ap
33	222	9.7	458	4	US-09-435-956A-1	Sequence 1, Appli
34	222	9.7	837	4	US-09-949-016-6515	Sequence 6515, Ap
35	220.5	9.7	344	4	US-09-700-397-3	Sequence 3, Appli
36	214	9.4	4391	4	US-10-006-011A-2	Sequence 2, Appli
37	211	9.2	313	4	US-09-700-397-4	Sequence 4, Appli
38	208	9.1	388	1	US-08-429-742-4	Sequence 4, Appli
39	206.5	9.0	1331	4	US-09-949-016-6861	Sequence 6861, Ap
40	206	9.0	642	1	US-08-217-299-1	Sequence 1, Appli
41	206	9.0	698	2	US-08-602-725-36	Sequence 36, Appli
42	206	9.0	702	4	US-09-949-016-6484	Sequence 6484, Ap
43	206	9.0	734	2	US-08-389-459A-17	Sequence 17, Appl
44	206	9.0	734	3	US-08-987-867A-17	Sequence 17, Appl
45	206	9.0	740	4	US-09-949-016-8168	Sequence 8168, Ap

ALIGNMENTS

RESULT 1

US-09-778-510-20
; Sequence 20, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778, 510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-778-510-20

Query Match		100.0%;	Score 2283;	DB 4;	Length 442;
Best Local Similarity		100.0%;	Pred. No. 9e-192;		
Matches 442;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MASVLPSSGQCAAAAAAAPPGLRLRLLLLLLPSAALIP	TGQGNLFTKDVTVIEGEVA	60	
Db	1	MASVLPSSGQCAAAAAAAPPGLRLRLLLLLLPSAALIP	TGQGNLFTKDVTVIEGEVA	60	
Qy	61	TTSCQNKSDSDSVIQLLNPROTIYFRDPRPLKDSFOLLN	FSSSELKVSLLTNVSI	120	
Db	61	TTSCQNKSDSDSVIQLLNPROTIYFRDPRPLKDSFOLLN	FSSSELKVSLLTNVSI	120	
Qy	121	RYFCQLYTPPQBSYTTITVLVPPRLMIDIQKDTAVEGE	EEIVNCTAMASKPATIRWF	180	
Db	121	RYFCQLYTPPQBSYTTITVLVPPRLMIDIQKDTAVEGE	EEIVNCTAMASKPATIRWF	180	
Qy	181	KGNTLKGKSEVEWSDMTVTTSQMLKVHKEDGVPVICQV	EHPAVTGNLQRYLEVQ	240	
Db	181	KGNTLKGKSEVEWSDMTVTTSQMLKVHKEDGVPVICQV	EHPAVTGNLQRYLEVQ	240	
Qy	241	YKQVHIQMTYPIQGLTREGDALELCEALGKQPQWMTVR	VDDDEMPQHAVLSGNLFI	300	
Db	241	YKQVHIQMTYPIQGLTREGDALELCEALGKQPQWMTVR	VDDDEMPQHAVLSGNLFI	300	
Qy	301	NNLNKTDNGTYRCEASNIVGKAHSDYMLVYDPTTIPPT	TTTTTTTTTTTTTTTT	360	
Db	301	NNLNKTDNGTYRCEASNIVGKAHSDYMLVYDPTTIPPT	TTTTTTTTTTTTTTTT	360	

Qy 361 SRAGEGSIKRAVDHGVVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIKRAVDHGVVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy 421 DTAINAEGQNNSEKKEYFI 442
Db 421 DTAINAEGQNNSEKKEYFI 442

RESULT 2
US-09-930-803-1
; Sequence 1, Application US/09930803
; Patent No. 6596493
; GENERAL INFORMATION:
; APPLICANT: REEVES, Roger
; APPLICANT: YOSHINORI, Muramaki
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED DISORDERS
; FILE REFERENCE: JHU1770-1
; CURRENT APPLICATION NUMBER: US/09/930,803
; CURRENT FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-930-803-1

Query Match 100.0%; Score 2283; DB 4; Length 442;
Best Local Similarity 100.0%; Pred. No. 9e-192;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGQCAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGQCAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Qy 61 TISCQVNSDSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEG 120
Db 61 TISCQVNSDSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEG 120
Qy 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180
Qy 181 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQ 240
Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVWRVDDMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVWRVDDMPQHAVLSGPNLFI 300
Qy 301 NNLNKTNDNGYRCEASNIQKASDYMVLYVDPPTTIPPTTTTTTTTTTTTTTTTTITD 360
Db 301 NNLNKTNDNGYRCEASNIQKASDYMVLYVDPPTTIPPTTTTTTTTTTTTTTTTTITD 360
Qy 361 SRAGEGSIKRAVDHGVVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIKRAVDHGVVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy 421 DTAINAEGQNNSEKKEYFI 442
Db 421 DTAINAEGQNNSEKKEYFI 442

RESULT 3
US-09-866-028-61
; Sequence 61, Application US/09866028
; Patent No. 6642360
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/866,028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-866-028-61

Query Match 99.1%; Score 2263; DB 4; Length 440;
Best Local Similarity 99.5%; Pred. No. 5.1e-190;
Matches 440; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

Qy 1 MASVLPSSGQCAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGQCAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 58
Qy 61 TISCQVNSDSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEG 120
Db 59 TISCQVNSDSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEG 118
Qy 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180
Db 119 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATIRWF 178
Qy 181 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQ 240
Db 179 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQ 238
Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVWRVDDMPQHAVLSGPNLFI 300
Db 239 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVWRVDDMPQHAVLSGPNLFI 298
Qy 301 NNLNKTNDNGYRCEASNIQKASDYMVLYVDPPTTIPPTTTTTTTTTTTTTTTTTITD 360
Db 299 NNLNKTNDNGYRCEASNIQKASDYMVLYVDPPTTIPPTTTTTTTTTTTTTTTTTITD 358
Qy 361 SRAGEGSIKRAVDHGVVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 359 SRAGEGSIKRAVDHGVVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 418
Qy 421 DTAINAEGQNNSEKKEYFI 442
Db 419 DTAINAEGQNNSEKKEYFI 440

RESULT 4
US-09-944-457-61
; Sequence 61, Application US/09944457
; Patent No. 6734288
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone


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; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-778-510-22

Query Match          95.0%; Score 2169; DB 4; Length 423;
Best Local Similarity 98.8%; Pred. No. 8.4e-182;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 19 AAPGLRLRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
Db 1 AAPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60

Qy 79 PNQTIYFRDPRPLKDSRFOLLNFSSELKVLSTNVSISDEGRYFCOLYTDPPQESYTTI 138
Db 61 PNQTIYFRDPRPLKDSRFOLLNFSSELKVLSTNVSISDEGRYFCOLYTDPPQESYTTI 120

Qy 139 TVLVPPRNLMIDIKQDTAVAGEEIEVNCNTAMASKPATTIRWFKGNTLKGKSEVEEWSDM 198
Db 121 TVLVPPRNLMIDIKQDTAVAGEEIEVNCNTAMASKPATTIRWFKGNTLKGKSEVEEWSDM 180

Qy 199 YTVTSQMLMKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQYKPVQVHIQMTYPLQGLTR 258
Db 181 YTVTSQMLMKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQYKPVQVHIQMTYPLQGLTR 240

Qy 259 EGDALFTCEAIGKQPQVWTVWRVDDMPQHAVLSGNPLFINNLKNTDNGTYRCEASNI 318
Db 241 EGDALFTCEAIGKQPQVWTVWRVDDMPQHAVLSGNPLFINNLKNTDNGTYRCEASNI 300

Qy 319 VGRAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
Db 301 VGRAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360

Qy 379 GVAVVVFAMCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQGNNSSEKK 438
Db 361 GVAVVVFAMCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQGNNSSEKK 420

Qy 439 EYF 441
Db 421 EYF 423

RESULT 6
US-08-659-984A-5
; Sequence 5, Application US/08659984A
; Patent No. 5942400
; GENERAL INFORMATION:
; APPLICANT: Anderson, John P.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Jacobson-Croak, Kirsten L.
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; TITLE OF INVENTION: Inhibition
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/659,984A
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 444 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-659-984A-5

Query Match          39.5%; Score 902; DB 2; Length 444;
Best Local Similarity 44.6%; Pred. No. 1.1e-70;
Matches 194; Conservative 74; Mismatches 137; Indels 30; Gaps 7;

Qy 31 LLESAAA---LIPTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNQTIYPR 87
Db 17 LLQAAAANKKNGSQGQPLTQNTVVEGGTALTICRVDDNDNTSLQWSNPAQOTLYFD 76

Qy 88 DFRPLKDSRFOLLNFSSELKVLSTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRN 147
Db 77 DKALADNRIELVRAWHELISVSDVSLSDGQYTCSLFTMPVKTSKAYLTVLGVPEKP 136

Qy 148 MIDIQKDTAVEGEIEVNCNTAMASKPATTIRWFKGNTLKGKSEVEEWS---DMYTVTSQ 204
Db 137 QISGSPSPVMEGLMQLTKTSGSKPAADIRWFKNDKEIKDKVKYKKEEDANRKTFTVSST 196

Qy 205 LMLKVHKEDDGPVVCQVEHPAVTGNLQ--TORVLEVOYKPVQVHIQMTYPLQGLTREGDAL 263
Db 197 LDFRDRSDGVAICRVDSHESLNATPQVAMQVLEIHYTPSVK1---IPSTPPQEGQPL 253

Qy 264 ELTCEAIGKQPQVWTVWRVDDM---PQHAVLSGNPLFINNLKNTDNGTYRCEASNI 321
Db 254 ILTCESKGRLPEPLVLTQKGELPDPDRMVSGRELNLFNKNTDNGTYRCEATWIGQ 313

Qy 322 AHSYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTIT 367
Db 314 SSAEYVLIVHDVNTLLPTTIIPSLTATVTTTVAITTSPTTSATTSSIRDPNALAQNG 373

Qy 368 SIRAVDHAIVGGVAVVVFAMCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINA 427
Db 374 P-----DHALIGGIVAVVVFVTLCSIFLLGRYLARHKGTYLTNEAKGAEDAPDADTAIINA 429

Qy 428 EGGQNNSEKKEYFI 442
Db 430 EGSQVNAEKEKEYFI 444

RESULT 7
US-08-660-531-5
; Sequence 5, Application US/08660531
; Patent No. 6221645
; GENERAL INFORMATION:
; APPLICANT: Chrysler, Susanna M.S.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Keim, Pamela S.
; APPLICANT: Anderson, John P.
; TITLE OF INVENTION: Beta-Secretase
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
```


Db 363 VWFVTLCSIFLGRYLARHKGYLTNEAKGAEDAPDADTAIINAEGSQVNAEEKKEYFI 421

RESULT 9

US-08-660-531-1

; Sequence 1, Application US/08660531

; Patent No. 6221645

; GENERAL INFORMATION:

; APPLICANT: Chrysler, Susanna M.S.

; APPLICANT: Sinha, Sukanto

; APPLICANT: Keim, Pamela S.

; APPLICANT: Anderson, John P.

; TITLE OF INVENTION: Beta-Secretase

; NUMBER OF SEQUENCES: 21

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Townsend and Townsend and Crew LLP

; STREET: Two Embarcadero Ctr., 8th Floor

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94111-3834

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/660,531

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/480,498

; FILING DATE: 07-JUN-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Heslin, James M.

; REGISTRATION NUMBER: 29,541

; REFERENCE/DOCKET NUMBER: 15270-002210US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-326-2400

; TELEFAX: 415-326-2422

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 421 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-660-531-1

Query Match 39.2%; Score 895.5; DB 3; Length 421;

Best Local Similarity 45.1%; Pred. No. 3,9e-70;

Matches 189; Conservative 73; Mismatches 130; Indels 27; Gaps 6;

Qy 44 GQNLFTKDVTVIEGEVATISQVKNKSDSVQLLNNRQTYFRDPRPLKDSRFQLNFS 103

Db 10 GQPLTQNTVVEGGTALTTCRVQDNTSLQSNPAQOTLYFDKALDRNRIELVRAS 69

Qy 104 SSELKSLTNVTSIDEGRYFCOLYTDPPQESYTTITVLVPPRLMIDIQDVAEEIEE 163

Db 70 WHELSTSVDSVLSDEGOYTCSLFTMPVKTSKAYTLVGVPEKPSGFSFVMEGLMQ 129

Qy 164 VNCTAMASKPATIRFWKGNTELKGEVEBS--DMYTVTSQMLKVHKEDDGVFVIC 220

Db 130 LTCKTSKGAADIRFWKGNKEIKDVYKLEEDANRKTFTVSTLDRVDRSDGVAVIC 189

Qy 221 QVEHPAVTGNLQ-TQRYLEYQVQKQVHIQMTYPLQGLTREGDALELTCEAIGKPPQVMVT 279

Db 190 RVDHESLNATPQVAMQVLEIHYTPSVKI--IPSTPPPGQGPLILTCSKGPPLPEPVL 246

Qy 280 WVRVDDM--PQHAVLSGPNLFINLNKTDNGTYRCEASNIIVGKASHDYMLYVDDPTTI 337

Db 247 WTKDGGELPDRVMVSGRELNLFLNKTNDNGTYRCEATNTIGQSSAEYVLIVHDVNTL 306

Qy 338 PPPTTTTTTTTTTTTTTTTTTTTT-----DSRAGEGSTRVADHAVIGGVAV 383

Db 307 LPTTIIPSLTTATVTTTVAITTSPTTSATTSSIRDNALAGQNGP---DHALIGGIVAV 362

Qy 384 VVFAMLCILLIIGRYFARHKGYTFTEAKGADDAADTAIINAEGSQVNAEEKKEYFI 442

Db 363 VWFVTLCSIFLGRYLARHKGYLTNEAKGAEDAPDADTAIINAEGSQVNAEEKKEYFI 421

RESULT 10

US-09-778-510-4

; Sequence 4, Application US/09778510

; Patent No. 6512095

; GENERAL INFORMATION:

; APPLICANT: Baum, Peter

; TITLE OF INVENTION: Molecules Designated B7L1

; FILE REFERENCE: 2844-US

; CURRENT APPLICATION NUMBER: US/09/778,510

; CURRENT FILING DATE: 2001-02-07

; PRIOR APPLICATION NUMBER: PCT/US99/17906

; PRIOR FILING DATE: 1999-08-05

; PRIOR APPLICATION NUMBER: 60/095,663

; PRIOR FILING DATE: 1998-08-07

; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 4

; LENGTH: 398

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-778-510-4

Query Match 32.7%; Score 745.5; DB 4; Length 398;

Best Local Similarity 39.1%; Pred. No. 5.2e-57;

Matches 172; Conservative 74; Mismatches 137; Indels 57; Gaps 11;

Qy 16 AAAAPPGLRLRLLLLFSAALIPYG----DGQNLFTKDVTVIEGEVATISQVKNKSD 70

Db 3 APAASP----VPLLLLL--ACSWAPGGANLSQDSDQPTSDSTVAVAGTVVLKQCVKDHE 56

Qy 71 DSVIQLLNNRQTYFRDPRPLKDSRFQLNFSSELKSLTNVTSIDEGRYFCOLYTD 130

Db 57 DSSLQSNPAQOTLYFGEKRALDRNRIQLVSSPHLSISINVALADEGEYTCSTFTMP 116

Qy 131 POESYTTITVLVPPRLMIDIQDVAEEIEEVNCTAMASKPATIRFWKGNTELKQ-K 189

Db 117 VRTAKSLVTVLGIPOKPIITGYKSLREKETATLNCQSSGSKPAQLTWKQQLHGDQ 176

Qy 190 SEVEWSD--MYTVTSQMLKVHKEDDGVFVICQVEHPAVTG-NLOTQRYLEYQVQKQVH 246

Db 177 TRIQEDPNGKTFVSSSVSFQVTRREDDGANIVCSVNHESLKGADRSTQRIEVLVPTAM 236

Qy 247 IQMTYPLQGLTREGDALELTCEAIGKPPQVMVTWVRVDDMPP---QHAVLSGPNLFINN 302

Db 237 IR---PEPAHPRGQKLLHLHCEGRGNPVQQYVYVVKEGSEPPPLKMTQESALIFP-----F 288

Qy 303 LNKTDNGTYRCEASNIIVGKASHDYMLYVDDPTTIPTTPPTTTTTTTTTTTTTTTTTITDSR 362

Db 289 LNKSDSTGYCTATSNMGSTAYFTLVNDPS---FVPSSTY-----FVPSSTY----- 329

Qy 363 AGEBSIRAVDHAVIGGVAVVVFAMLCILLIIGRYFARHKGYTFTEAKGADDAADTA 422

Db 330 -----HAIIGGIVAFIVFLLLILLIFLGHYLRHKGYLTNEAKGSDADPADT 378

Qy 423 AIINAEGSQVNAEEKKEYFI 442

Db 379 AIINAEGSQVGGDDKKEYFI 398

RESULT 11

US-09-778-510-6

; Sequence 6, Application US/09778510

; Patent No. 6512095

; GENERAL INFORMATION:

APPLICANT: Baum, Peter
TITLE OF INVENTION: Molecules Designated B7L1
FILE REFERENCE: 2844-US
CURRENT APPLICATION NUMBER: US/09/778,510
CURRENT FILING DATE: 2001-02-07
PRIOR FILING DATE: PCT/US99/17906
PRIOR FILING DATE: 1999-08-05
PRIOR APPLICATION NUMBER: 60/095,663
PRIOR FILING DATE: 1998-08-07
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 398
TYPE: PRT
ORGANISM: Homo sapien
US-09-778-510-6

Query Match 32.4%; Score 739; DB 4; Length 398;
Best Local Similarity 38.6%; Pred. No. 1.9e-56;
Matches 166; Conservative 73; Mismatches 147; Indels 44; Gaps 9;

Qy 22 PGLRLRLRLLLLSAAALIPGT-----DQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQL 76
Db 4 PAASLLLLLLLF-ACCWAPGAGNLSQDSDPWTSDETVWAGTTLVKCQVKDHEDSSLOW 62

Qy 77 LNPNRQTIYFRDPLKDSRFQLLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYT 136
Db 63 SNPAQOTLYFGEKRALRDNRILQVLTSTPHELSISINVALADEGEYTCSTFTMPVRTAKS 122

Qy 137 TITVLVPPRNLMIDIOKDTAVEGEIEVNCETAMASKPATIRWFKGNTELKKGK-SEVEEW 195
Db 123 LVTVLGIPQPIITGYKSSUREKNDATLNCQSSGSRPAARLTWRKQDELHGEPTRIQED 182

Qy 196 SD--MYTTSQMLKVKHEDGVPICOVEHPAVTG-NLQTRYLEYQYKPOVHIQMTYP 252
Db 183 PNGKTFVSSSVTFQVTRDDGASIVCSVNHESLKGADSTQSRIEVLVYPTAMIRPDPP 242

Qy 253 LOGITREGDALELCEAIGKQPPVWTVVRVDDMPQHAVLSGNLFINNLKNTDNGTYR 312
Db 243 ---HPREGQKLLHCEGRGNPVPQOYLWEK-EGSVPLPKMTQESALIFPFLNKSQSDSGTYG 298

Qy 313 CEASNIVGKAHSDYMLVYDPPPTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 372
Db 299 CTATSNMGSKAYTLNNDPS-----VPSSSVT----- 329

Qy 373 DHAIVGGVAVVVFAMCLLIILGRYFARKGTGYFTHEAKGADDAADATTAIINAEQQN 432
Db 330 -HAIIGGIVAFIVFLLIMLIFLGHYLIRHKGTLYLTHEAKGSDDADPADTAIINAEQQS 398

Qy 433 NSEBKKEFYI 442
Db 389 GGDDKKEFYI 398

RESULT 12
US-09-707-794A-84
Sequence 84, Application US/09907794A
Patent No. 6635468
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794A
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 84
LENGTH: 398
TYPE: PRT
ORGANISM: Homo sapiens
US-09-907-794A-84

Query Match 32.4%; Score 739; DB 4; Length 398;
Best Local Similarity 38.6%; Pred. No. 1.9e-56;
Matches 166; Conservative 73; Mismatches 147; Indels 44; Gaps 9;

Qy 22 PGLRLRLRLLLLSAAALIPGT-----DQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQL 76
Db 4 PAASLLLLLLLF-ACCWAPGAGNLSQDSDPWTSDETVWAGTTLVKCQVKDHEDSSLOW 62

Qy 77 LNPNRQTIYFRDPLKDSRFQLLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYT 136
Db 63 SNPAQOTLYFGEKRALRDNRILQVLTSTPHELSISINVALADEGEYTCSTFTMPVRTAKS 122

Qy 137 TITVLVPPRNLMIDIOKDTAVEGEIEVNCETAMASKPATIRWFKGNTELKKGK-SEVEEW 195
Db 123 LVTVLGIPQPIITGYKSSUREKNDATLNCQSSGSRPAARLTWRKQDELHGEPTRIQED 182

[illegible]

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:42:27 ; Search time 24.9399 Seconds
(without alignments)
1631.912 Million cell updates/sec

Title: US-10-622-237-4

Perfect score: 2197

Sequence: 1 AAPPGRLRLRLLLLLSAAAL.....TAINAEGGQNNSEKKEYF 423

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: PIR 79:*

2: PIR1:*

3: PIR2:*

4: PIR3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	270	12.3	407	2 T08732	hypothetical prote
2	261.5	11.9	5175	2 T20992	hypothetical prote
3	261.5	11.9	5198	2 T43290	hemikentcin precurs
4	246.5	11.2	467	1 HLMSP3	poliovirus recepto
5	244	11.1	518	2 JC4024	poliovirus recepto
6	243	11.1	530	2 A53437	poliovirus recepto
7	238.5	10.9	538	2 T68093	PRR2 delta - human
8	238	10.8	725	2 JE0099	neural cell adhesi
9	237	10.8	417	2 A44194	poliovirus recepto
10	234.5	10.7	392	2 B44194	poliovirus recepto
11	234	10.7	1088	1 IJXLNL	neural cell adhesi
12	232.5	10.6	392	1 RWHUPA	poliovirus recepto
13	232.5	10.6	417	1 RWHUPA	poliovirus recepto
14	231	10.5	344	2 T56551	neurotrophin - rat
15	228.5	10.4	7962	2 T38346	elastic titin - hu
16	226	10.3	4162	2 T42633	connectin/titin -
17	225	10.2	1011	2 T13669	neuromusculin - fr
18	222	10.1	725	1 JE0035	neural cell adhesi
19	222	10.1	1092	1 JN0635	neural cell adhesi
20	220.5	10.0	338	2 JC5519	50K glycoprotein p
21	220	10.0	478	2 T53960	PRR2 alpha - human
22	217.5	9.9	345	2 S03199	opioid-binding pro
23	215.5	9.8	345	2 JC4025	opioid-binding cel
24	215.5	9.8	588	2 A45254	surface glycoprote
25	214	9.7	588	2 JH0506	adhesion molecule
26	212	9.6	4391	2 A38096	perlecan precursor
27	210.5	9.6	812	2 B42632	cell adhesion mole
28	210.5	9.6	932	2 A42632	cell adhesion mole
29	209.5	9.5	345	2 JC1239	opioid-binding pro

30 209.5 9.5 584 2 I50419 s-glycerin precurs
31 207.5 9.4 646 2 I38049 cell surface glyco
32 206.5 9.4 338 2 JC4776 limbic-systen-asso
33 206.5 9.4 862 2 T49583 differentiation an
34 206.5 9.4 868 2 A46512 CD22 homolog/B lym
35 206 9.4 847 2 JH0371 B-cell adhesion pr
36 204 9.3 702 2 A36319 carcinoembryonic a
37 203.5 9.3 583 2 I39428 alicam - human
38 202 9.2 1443 2 I50600 neogenin - chicken
39 200.5 9.1 338 2 JC1238 opioid-binding pro
40 200.5 9.1 765 2 C42632 cell adhesion mole
41 200 9.1 587 2 JH0464 DM-GRASP precursor
42 197 9.0 3707 2 S18252 heparan sulfate pr
43 196.5 8.9 1241 2 T37190 nephrin - human
44 195 8.9 1323 2 FN0568 connectin 3B - chi
45 193 8.8 761 1 IJHUNG neural cell adhesi

ALIGNMENTS

RESULT 1

T08732
hypothetical protein DKFZp566B0846.1 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C;Accession: T08732
R;Ottenwaelder, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, May 1999
A;Reference number: Z16474
A;Accession: T08732
A;Molecule type: mRNA
A;Residues: 1-407 <OTT>
A;Cross-references: UNIPROT:Q9Y412; EMBL:AL050071
A;Experimental source: fetal kidney; clone DKFZp566B0846
C;Genetics:
A;Note: DKFZp566B0846.1

Query Match 12.3%; Score 270; DB 2; Length 407;
Best Local Similarity 27.0%; Pred. No. 1.2e-11;
Matches 85; Conservative 58; Mismatches 124; Indels 48; Gaps 13;

QY 102 GRFYCQLYTPD--PQSSYTTITVLVPPRLMIDIQDTAVEG--EETEVNCTAMASKPAT 157
DB 2 GKTYCKAVTPPLGNAOSSTTTVLVEPTVSLIK-GPDSLIDGGNETVAAICIAATGRPVA 60
QY 158 TIRWFKGNKELKGKSEVEEWSDMY----TVTSQMLKVKHKDDGVPICOVEHPAVTGN 212
DB 61 HLDW-EGD-----LGEMESTTTSFPNETAIIISQYKLPPTFRFARGRITCVVKKPALEKD 114
QY 213 LOTQRYLEVQKPVQHIQMTYPLQGLTREGDAFELTCEAIGKPKQPMVMVTVVRVDDMPQH 272
DB 115 IRYSFILDIQYAEVSVTVGYDGNWFGVRKG--VNLKCNADANPPFPKSVMSRLDQWPDG 172
QY 273 AVLSGPNL-FINNINKTDNGTYCEASNIVGKASHDYMVLYVYDPP--TTTTPP-----PTT 324
DB 173 LLASDNTLHFVHPLTFNYSGVYICKVTNSLQGRSDQKVIIVISDPPTTTTLOPTQWHPST 232
QY 325 TTTTITTTT-----TTTITITTSRAGEEGTIGAVDHAVIGGVVAVVFMFLCLLI- 375
DB 233 ADIEDLATEPKKLPFFLSTLATI-----KDDTIATIIASVVGALFVILVSVLAGIFC 285
QY 376 -----ILGRYFARH 384
DB 286 YRRRTFRGDFYFAKN 300

RESULT 2

T20992
hypothetical protein F15G9.4a - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T20992; T24733

R;Sulston, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19355
A;Accession: T20992
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-5175 <WIL>
A;Cross-references: UNIPROT:Q810L3; EMBL:Z47068; PIDN:CAA87335.1; GSPDB:GN000028; CESP:F15G9.4b
R;Kershaw, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19929
A;Accession: T24733
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-5175 <W12>
A;Cross-references: EMBL:Z47070; PIDN:CAA87344.1; GSPDB:GN000028; CESP:F15G9.4a
A;Experimental source: clone T09B9
C;Genetics:
A;Gene: CESP:F15G9.4a
A;Map position: X
A;Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/3;
; 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 3033/1;
1; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4879/1; 4941/1; 5011/1; 5077/1;
Query Match 11.9%; Score 261.5; DB 2; Length 5175;
Best Local Similarity 24.6%; Pred. No. 1.2e-09;
Matches 87; Conservative 65; Mismatches 130; Indels 71; Gaps 15;
Qy 34 VTVEGEVATISQVANKSDSVIQLNPNRQTIYFRDRLP-----KDSRFQLNFSSEL 89
Db 2200 VTAIKGALPFKPID--DDK-----NFKGQIILWLNYPIDLEAEDARITRL---SNDR 2249
Qy 90 KVSILTNVSIISDEGRYFCOLYTDPPQESYT-TITVLVPPRNLMIDIOKD-TAVEGEIEVN 147
Db 2250 RLILNVTENDEQYSCRKVNDAAGNSFDFKATVLVPPPTIIMLDKDKNKTAVESHVTVLS 2309
Qy 148 CTAMASKPATITIRWFKG-----NKLKGKSEVEWSDMYTTSOLMLKVHK 193
Db 2310 CPA-TGKPEPDITWFKDGEAIIHENTADIIPNGELNG-----NQLKITRIK 2354
Qy 194 EDGVPVICQVEHPAVTGNLQTOYLEVQYKQVH-----IQMTYPLQGLTREGDAFELTCE 250
Db 2355 EGDAGKYTCBADNSA--GSVEQDVNVNVTIPKIEKGIPSDYESQ----QNERVVISCP 2408
Qy 251 AIGKQPQVMVTVRVDDDEMPQHVL-----SGPNLFINNKNKTNGTYRCEASNIIVGKAHS 306
Db 2409 VYARP-PAKITWLKAGPLQSDKFVTSANGQKLYLFKLRETDSSSKYTCIATNEAGTDKR 2467
Qy 307 DYMLVYVDPPTTIPP-----PTTTTTTTTTTTTTITITITDSRAGE 347
Db 2468 DFKVSMVLVAPSFDEPNIVRITVNSGNPSTLHCPAKGSPPTITWLKDGNAIE 2520
RESULT 3
T43290
hemiscetin precursor - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jul-2004
R;Vogel, B.E.; Hedgecock, E.M.
submitted to the EMBL Data Library, June 1998
A;Description: Hemiscetin is required for hemidesmosome mediated cell adhesion and germ-
A;Reference number: Z22396
A;Accession: T43290
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-5198 <VOG>
A;Cross-references: UNIPROT:O76518; EMBL:AF074901; PIDN:AAC26792.1
R;Sulston, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19355
A;Accession: T20993

A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-5198 <WIL>
A;Cross-references: EMBL:Z47068; PIDN:CAA87336.1; GSPDB:GN000028; CESP:F15G9.4b
R;Kershaw, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19929
A;Accession: T24734
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-5198 <W12>
A;Cross-references: EMBL:Z47070; PIDN:CAA87345.1; GSPDB:GN000028; CESP:F15G9.4b
A;Experimental source: clone T09B9
C;Genetics:
A;Gene: him-4; F15G9.4b
A;Map position: X
A;Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/3;
; 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 3033/1;
1; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4902/1; 4964/1; 5034/1; 5100/1;
Query Match 11.9%; Score 261.5; DB 2; Length 5198;
Best Local Similarity 24.8%; Pred. No. 1.2e-09;
Matches 87; Conservative 65; Mismatches 130; Indels 71; Gaps 15;
Qy 34 VTVEGEVATISQVANKSDSVIQLNPNRQTIYFRDRLP-----KDSRFQLNFSSEL 89
Db 2200 VTAIKGALPFKPID--DDK-----NFKGQIILWLNYPIDLEAEDARITRL---SNDR 2249
Qy 90 KVSILTNVSIISDEGRYFCOLYTDPPQESYT-TITVLVPPRNLMIDIOKD-TAVEGEIEVN 147
Db 2250 RLILNVTENDEQYSCRKVNDAAGNSFDFKATVLVPPPTIIMLDKDKNKTAVESHVTVLS 2309
Qy 148 CTAMASKPATITIRWFKG-----NKLKGKSEVEWSDMYTTSOLMLKVHK 193
Db 2310 CPA-TGKPEPDITWFKDGEAIIHENTADIIPNGELNG-----NQLKITRIK 2354
Qy 194 EDGVPVICQVEHPAVTGNLQTOYLEVQYKQVH-----IQMTYPLQGLTREGDAFELTCE 250
Db 2355 EGDAGKYTCBADNSA--GSVEQDVNVNVTIPKIEKGIPSDYESQ----QNERVVISCP 2408
Qy 251 AIGKQPQVMVTVRVDDDEMPQHVL-----SGPNLFINNKNKTNGTYRCEASNIIVGKAHS 306
Db 2409 VYARP-PAKITWLKAGPLQSDKFVTSANGQKLYLFKLRETDSSSKYTCIATNEAGTDKR 2467
Qy 307 DYMLVYVDPPTTIPP-----PTTTTTTTTTTTTTITITITDSRAGE 347
Db 2468 DFKVSMVLVAPSFDEPNIVRITVNSGNPSTLHCPAKGSPPTITWLKDGNAIE 2520
RESULT 4
HLMSP3
poliovirus receptor homolog precursor - mouse
C;Species: Mus musculus domesticus (western European house mouse)
C;Date: 30-Jun-1993 #sequence_revision 30-Jun-1993 #text_change 09-Jul-2004
C;Accession: A38211
R;Morrison, M.E.; Racaniello, V.R.
J. Virol. 66, 2807-2813, 1992
A;Title: Molecular cloning and expression of a murine homolog of the human poliovirus re
A;Reference number: A38211; MUID:92219365; PMID:1560525
A;Accession: A38211
A;Molecule type: DNA
A;Residues: 1-467 <WOR>
A;Cross-references: UNIPROT:P32507; GB:M80206; NID:G159785; PIDN:AAA39734.1; PID:G159786
C;Superfamily: poliovirus receptor; immunoglobulin homology
F;1-25/Domain: signal sequence #status predicted <SIG>
F;26-467/Product: poliovirus receptor homolog #status predicted <MAT>
F;26-354/Domain: extracellular #status predicted <EXT>
F;47-133/Domain: immunoglobulin homology <IMM1>
F;167-231/Domain: immunoglobulin homology <IMM2>
F;267-322/Domain: immunoglobulin homology <IMM3>
F;355-374/Domain: transmembrane #status predicted <TMN>

F;375-467/Domain: intracellular #status predicted <INT>
F;54-174-229,274-320/Dissulfide bonds: #status predicted
F;128,138,315/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 11.2%; Score 246.5; DB 1; Length 467;
Best Local Similarity 21.6%; Pred. No. 6.5e-10;
Matches 101; Conservative 72; Mismatches 196; Indels 99; Gaps 16;

QY 4 PGLRLRLLLLSAALIPFGDQNLFTKDVTVIEGV-----ATISQV----- 48
DB 14 PTLPLPLLLLL-----LQETG-AQDVVRVLPVGRGLGTVELPCHLLPPTTTERVSQVT 68
QY 49 -NKSDSDSVIQLLNPNRQTIYFRDPLKDSRFOL-----LNFSSELKSLTNVSIS 99
DB 69 WQRLDGTVAFAFHS-----FGVDFPNSQFSKDRLSFVRARPETNADRLATLAFRGLRVE 124
QY 100 DEGRYFCOLYTDTP--POESTYTTITVLVPPRNLMDIQKTAVEGEIEV-----NCT 149
DB 125 DEGNITCEPATFNGTRRGVTLRVAQPN-----HAEAEQVETIGPQSVAVARCV 175
QY 150 AMASKPATITRWPKG-NKELKGKSEVEEDMTVTTSQMLMKVHKEDDGPVICOVEHPA 208
DB 176 STGCRPPARITWISSLGGEAKDTQEPGIAQGTVTIISRYSLVPVGRADGVKVTCTRVEHES 235
QY 209 VTGNLQTORVLEQYKPOVHIQMTYPLQGLTREGDAPELTCEALGKQPQVMTWVRVDDE 268
DB 236 FEPILLPVTLSVRYPEVSIS-GYDDNWYLGKSEAI-LTCDVRSNPEPTDYDMSTTSVG 293
QY 269 MPQHAVLSGPNLFINLNKTDNGTYRCEASNIQKSHSDYMLVYDPTTTPPTTTTTT 328
DB 294 FPASAVAQSQQLLVHSDVRMNTTICTATNAVGTGRAEQVILVRDTPQA----- 343
QY 329 TTTTITLIIITDSRAGESTGAVDHAIVGVVAVVFA--MLCLLIILGRYFAHKG 386
DB 344 -----SR-----DVGPLVAGVGGTLLVLLAGGLFALLILGRRRRSPG 384
QY 387 TYFTHAEKAGGADDA-----ADADATAIINAEAGQNNSEKKE 421
DB 385 GGGNDGRGSDYDPKTVQVFGNGGVPVWRASPEPMRPGDREDEDEEE 432

RESULT 5
JC4024
poliovirus receptor-related protein precursor - human
C;Species: Homo sapiens (man)
C;Date: 13-Jun-1995 #sequence_revision 14-Jul-1995 #text_change 05-Nov-1999
R;Lopez, M.; Eberle, F.; Mattei, M.G.; Gabert, J.; Birg, F.; Bardin, C.; Dubr
Gene 155, 261-265, 1995
C;Accession: JC4024
A;Title: Complementary DNA characterization and chromosomal localization of a human gene
A;Reference number: JC4024; MUID:95237621; PMID:7721102
A;Accession: JC4024
A;Molecule type: mRNA
A;Residues: 1-518 <LQ>
A;Cross-references: EMBL:X76400; NID:9732795; PIDN:CAA53980.1; PID:9732796
C;Genetics:
A;Gene: GDB:PVRR1
A;Cross-references: GDB:583951
A;Map position: 11q23-11q24
C;Superfamily: poliovirus receptor; immunoglobulin homology
C;Keywords: glycoprotein; transmembrane protein
F;1-30/Domain: signal sequence #status predicted <SIG>
F;31-518/Product: poliovirus receptor-related protein #status predicted <MAT>
F;356-379/Domain: transmembrane #status predicted <TM>
F;36,72,82,139,287,308,333/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 11.1%; Score 244; DB 2; Length 518;
Best Local Similarity 25.1%; Pred. No. 1.1e-09;
Matches 104; Conservative 59; Mismatches 155; Indels 96; Gaps 20;

QY 56 IQLLNPNRQTIYFRDPLKDSRFQLNFSSELKSLTNVSISDEGRYFCOLYTDTP-- 113
DB 78 VAIINPMGVSVLAPYR-----ERVEFLRPSFTDITRLSLEDEGVIYCEPATFTGN 133

QY 114 QESYTTITVLVPPRNLMDIQKD-TAVEGEIEV---NCTAMASKPATITRWFKGNKELK 169
DB 134 RESQLNLTWNAKPTNWIETGTVLRRAKGGQDDKVLVATCTSANGKPPSVVSW---ETRLK 190
QY 170 GKSEV--EWSMD--YTVTSQMLMKVHKEDDGPVICOVEHPAVTGNLQTRY-----LE 220
DB 191 GEARVPGDSTPMAPTVTSRYELVPSREAHQOSLACIV-----NYHMDRPKESLTN 243
QY 221 VOYKPOVHIQ---MTYPLQGLTREGDAFELTCEALGKQPQVMTWVRVDDEMPQHAVLSG 277
DB 244 VOYEPEVTIEGFGDNVYLQMD-----VKLTCKADANPPATEYHWTTLNGLSLPKGVEAQN 298
QY 278 PNLFINN-LNKTDNGTYRCEASNIQKSHSDYMLVYDPTTTPPTTTTTTTTTTTT 336
DB 299 RTLFFKGPINYSIAGTYICEATNPITRSGQVEVNITEFPYTPSP----- 344
QY 337 LTIITDSRAGEEG-TIGAVDHAIVGVVAVVFAVVA--MLCLLIILGRYFA-----RH--KGYTF 389
DB 345 -----EHGRRAGPVPTAIIIGVAGSI--LLVLIVVGGIVVALRRRRTFKGYS 391
QY 390 T-----HEAKG-----DAAADATAIINAEAGQNNSEKKE 421
DB 392 TKHVVYNGYSKAGIQPHHPMAQNLYPDDSDDEKKA--GPLGSSSYEEEEE 443

RESULT 6
A53437
poliovirus receptor mpvr - mouse
C;Species: Mus musculus (house mouse)
C;Date: 06-Oct-1994 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A53437
R;Aoki, J.; Koike, S.; Ise, I.; Sato-Yoshida, Y.; Nomoto, A.
J. Biol. Chem. 269, 8431-8438, 1994
A;Title: Amino acid residues on human poliovirus receptor involved in interaction with p
A;Reference number: A53437; MUID:94179228; PMID:8132569
A;Accession: A53437
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-530 <AOK>
A;Cross-references: UNIPROT:P32507; GB:D26107; NID:9475017; PIDN:BA05103.1; PID:9825507
A;Experimental source: C57/BL6, brain
A;Note: sequence extracted from NCBI backbone (NCBIN:146664, NCBI:P:146667)
C;Superfamily: poliovirus receptor; immunoglobulin homology
F;47-133/Domain: immunoglobulin homology <IM>

Query Match 11.1%; Score 243; DB 2; Length 530;
Best Local Similarity 22.6%; Pred. No. 1.4e-09;
Matches 90; Conservative 61; Mismatches 162; Indels 86; Gaps 14;

QY 4 PGLRLRLLLLSAALIPFGDQNLFTKDVTVIEGV-----ATISQV----- 48
DB 14 PTLPLPLLLLL-----LQETG-AQDVVRVLPVGRGLGTVELPCHLLPPTTTERVSQVT 68
QY 49 -NKSDSDSVIQLLNPNRQTIYFRDPLKDSRFOL-----LNFSSELKSLTNVSIS 99
DB 69 WQRLDGTVAFAFHS-----FGVDFPNSQFSKDRLSFVRARPETNADRLATLAFRGLRVE 124
QY 100 DEGRYFCOLYTDTP--POESTYTTITVLVPPRNLMDIQKTAVEGEIEV-----NCT 149
DB 125 DEGNITCEPATFNGTRRGVTLRVAQPN-----HAEAEQVETIGPQSVAVARCV 175
QY 150 AMASKPATITRWPKG-NKELKGKSEVEEDMTVTTSQMLMKVHKEDDGPVICOVEHPA 208
DB 176 STGCRPPARITWISSLGGEAKDTQEPGIAQGTVTIISRYSLVPVGRADGVKVTCTRVEHES 235
QY 209 VTGNLQTORVLEQYKPOVHIQMTYPLQGLTREGDAPELTCEALGKQPQVMTWVRVDDE 268
DB 236 FEPILLPVTLSVRYPEVSIS-GYDDNWYLGKSEAI-LTCDVRSNPEPTDYDMSTTSVG 293
QY 269 MPQHAVLSGPNLFINLNKTDNGTYRCEASNIQKSHSDYMLVYDPTTTPPTTTTTT 328
DB 294 FPASAVAQSQQLLVHSDVRMNTTICTATNAVGTGRAEQVILVRDTPQA----- 343

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QY 329 TTTTTLTITDSRAGEGTIGAVDHAVIGGVAVVV 367
Db 344 -----AGAGATCG-----IIGGIIAAII 361

RESULT 7
I68093
PRR2 delta - human
C;Species: Homo sapiens (man)
C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C;Accession: I68093
R;Eberle, F.; Dubreuil, P.; Mattei, M.G.; Devillard, E.; Lopez, M.
Gene 159, 267-272, 1995
A;Title: The human PRR2 gene, related to the human poliovirus receptor gene (PVR), is th
A;Reference number: I53960; MUID:95347610; PMID:7622062
A;Accession: I68093
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-538 <RES>
A;Cross-references: UNIPROT:Q92692; GB:S79172; NID:g1042204; PID:g1042205
C;Gene: PRR2delta
A;Superfamily: poliovirus receptor; immunoglobulin homology
F;276-331/Domain: immunoglobulin homology <IMM>

Query Match 10.9%; Score 238.5; DB 2; Length 538;
Best Local Similarity 22.8%; Pred. No. 2.9e-09;
Matches 110; Conservative 63; Mismatches 196; Indels 113; Gaps 17;

QY 2 APPGLRLRLLLLSAAALPTGDQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNP 61
Db 12 SPPTPLLPWLLLLJL-----LLETG-AQDVRVQVLPVRG-----QLGGIVELPCHLLPP 59
QY 62 -----NQTIYFRDRPLKDSRF-----QLNPFSS----- 87
Db 60 VPGLYISLVTWQRPDAPANHQNVA--AAFHPKMGSPFSPKPGSERLSFVSAKQSTGQDTE 117
QY 88 -----ELKVSILTNVSIISDEGRYFCQLYTDP--PQESYTTITVLVPPRNLMDIQKDTAVEG 141
Db 118 AELODATALHGLTVEDEGNYTCFFATFPKGSVRGWTWLRVIAPKPN-QAEAKRVTFSD 176
QY 142 EEIEVNTAMASKPATIRWFKG-NKELKGKSEVEWSDMYTTSQMLMKVHKHEDDGPV 200
Db 177 PTTVALCISKEGRPPARISMLSSLDWEAKETQVSGTLAGTVTVTSRFTLVPSGRADGTV 236
QY 201 ICQVEHPAVTGNLTQRYLEVQYKQPVHIOQWTPLOGLTREGDAFELTCEAIGKQPVW 260
Db 237 TCKVEHESFEPPALIPVTLVSRVYPPVSVIS-GYDDNMYLGRDIA-TLSCDVRSNPEPTY 294
QY 261 TWVRVDDMPQHAVLSCPNLFINLNKTDNGTYRCEASNIYVGRKASDYMLYVYDPPPTIP 320
Db 295 DWSTTSFTPTSVAQGSQVLIHVDLSLNTFTVCTVTNAGVGRABEQVIFVRETPTNT-- 352
QY 321 PPTTTTTTTTTTTTTITLITDSRAGEGTIGAVDHAVIGGVAVVAVVAVVAVVAVVAVV 380
Db 353 -----AGAGATCG-----IIGGIIAAIIATAVATGILICR 383
QY 381 FARHKGTYFTHKAGDAADAD-----TAIINAE-----GGQNNSEKKE 421
Db 384 QORKEQT-----LOGAEDEDELEGGPPSKPPTPKAKLEAQEMPSQLFTLGASEHSLKTP 438
QY 422 YF 423
Db 439 YF 440

RESULT 8
JE0099
neural cell adhesion molecule 1 - African clawed frog
N;Alternate names: N-CAM 1
C;Species: Xenopus laevis (African clawed frog)
C;Date: 19-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
```

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C;Accession: JE0099
R;Kudo, M.; Takayama, E.; Tadakuma, T.; Shiohawa, K.
Biochem. Biophys. Res. Commun. 245, 127-132, 1998
A;Title: Molecular cloning of ssd-form neural cell adhesion molecules (N-CAMs) as the ma
A;Reference number: JE0099; MUID:98204770; PMID:9535795
A;Accession: JE0099
A;Molecule type: mRNA
A;Residues: 1-725 <KUD>
A;Cross-references: UNIPROT:O73633; DBJ:AB008162; NID:g3116226; PIDN:BAA25931.1; PID:g31
A;Experimental source: heart
C;Comment: This protein mediates and regulates various cell-cell interactions through bot
C;Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu
F;413-475/Domain: immunoglobulin homology <IMM>
F;512-589/Domain: fibronectin type III repeat homology <3FR>

Query Match 10.8%; Score 238; DB 2; Length 725;
Best Local Similarity 26.2%; Pred. No. 4.5e-09;
Matches 89; Conservative 61; Mismatches 148; Indels 42; Gaps 15;

QY 32 KDVTVEGEVATISC--OVN---KSDSDSVIQLLN---PNROTIVFRDPRPLKDSRFOL 81
Db 199 KDQIVNVNPTTIQARQLRVNATAKMAESVLSLDCDADGPDPEISWLKKEPIEDGE-EK 257
QY 82 LNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOQSYTTITVLVPPRNLMDIQKDTAVEG 141
Db 258 ISFNEQSEMTIHHVEKDDAEAYSC-IANNQAGEAEATILLKYVAKPKITYVENKTAVEL 316
QY 142 EEIEVNTAMASKPATIRWFKGKE-----LKGKSEVEWSDMYTTSQMLMKVHKE 194
Db 317 DEITLTCFA-SGDPIFISITWRTAVRNISSEATTLDGHIYVKEHIRM-----SALTLDKIQY 371
QY 195 DCGVPVICQVEHPAVTGNLTQRYLEVQYKQPVHIOQWTPLOGLTREGDAFELTCEAIGK 254
Db 372 TDAGEYFCIASNP-IGVDMQAM-YFEVQYAPKIR----GPVVVYTWEGNPNVITCEVFAH 425
QY 255 PQPMVMTVVRVDDMPQH-----AVLSGP-----NLFINLNKTDNGTYRCEASNIYVGRKAS 306
Db 426 PR-AAVTFRDQGLLPSSNFSNIKYSGPTSSSLEVPDSEDFGNVCTAINTIGHEFS 484
QY 307 DYMLYVYDPTTTPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTITLITDSRAG 346
Db 485 EFILVQADTFSS---PAIRKVEPYSTVMIVFDEPDSGTG 521

RESULT 9
A44194
poliovirus receptor (clone AGM-alpha-1) - green monkey
C;Species: Cercopithecus aethiops (green monkey, grivet)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C;Accession: A44194
R;Koike, S.; Ise, I.; Sato, Y.; Yonekawa, H.; Gotoh, O.; Nomoto, A.
J. Virol. 66, 7059-7066, 1992
A;Title: A second gene for the African green monkey poliovirus receptor that has no putat
A;Reference number: A44194; MUID:93059651; PMID:1331508
A;Accession: A44194
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-417 <KOI>
A;Cross-references: UNIPROT:P32506; GB:S48777
C;Superfamily: poliovirus receptor; immunoglobulin homology
C;Keywords: transmembrane protein
F;259-314/Domain: immunoglobulin homology <IMM>

Query Match 10.8%; Score 237; DB 2; Length 417;
Best Local Similarity 23.8%; Pred. No. 2.7e-09;
Matches 107; Conservative 68; Mismatches 194; Indels 80; Gaps 18;

QY 1 AAPPLRLRLLLLSAAALIPGTGQNLFTKDVTV--IEGEVATISC--QVANKSDSDSVI 56
Db 8 AWPP-----LLLTLELSWPPPTGDIIVQATQVPGFLGDSVTLFCYLVQVQMEETHV 61
QY 57 QLNLPNR-----QTIYFRDRPLKDSRFOLNPFSSSELKVSILTNVSIISDEGRY 104
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```
Db 62 SQTWSRHGSGMAVPHQTQPNYSBPKRLEFVAARLGTGLRDLASLRFMLRVEDSGNY 121
Qy 105 FCQLYTDPPOESYTT---ITVLVPRNLMDIQKDTAVEGEIEV-NCTAMASKPATIR 160
Db 122 TC-LFVTFPQGRSVDIWLRLAKPON-TAEVQK-VQLTGKVPVAVCVSTGGRPPAHIT 178
Qy 161 WFKGNKELKGKSEVEE---WSDMYTTSQMLKVKHKEDDGPVICOVEHPAVTGNLQTK 216
Db 179 W---HSLDGMPTNSQAPFLSGTIVTSLWILVPSQVDGKSVCKVEHSEKPOLLT 235
Qy 217 RYLEVQYKQVHIQMTYPLQGLREGDAFELTCEAIGKQPQVMVTVVRVDEMPQHAVALS 276
Db 236 VNLTVVYPPPEVSIS-GYDNNWYLSQNEA-TLTCDARSNPPTGYNWSTTGMPLPPFAVAQ 293
Qy 277 GPNLFINLNKTDNGTVRCASNIVGKAHSDYMLYVDDPTTTPPTTTTTTTTTTTTTTI 336
Db 294 GAQLLIRPVDPKPINTTFCINVTNMGARQAEITVQVKEGPPSEPS----- 338
Qy 337 LTIITDSRAGEGTIGAVDHAVIGGVVAVFAMLCILILILGRYFARHKT---YFTHE 392
Db 339 -----GMSNIIIFLILGIVI---LTLGLGVVYFYSRCSRFLMCHHL 380
Qy 393 AKGADDAADATAIINAEGQNNSEKKE 421
Db 381 SPSEEHASA-----SANGYISYSDVSRE 404

RESULT 10
B44194
poliovirus receptor (clone AGM-delta-1) - green monkey
C:Species: Cercopithecus aethiops (green monkey, grivet)
C>Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C:Accession: B44194
R:Koike, S.; Ise, I.; Sato, Y.; Yonekawa, H.; Gotoh, O.; Nomoto, A.
J. Virol. 66, 7059-7066, 1992
A:Title: A second gene for the African green monkey poliovirus receptor that has no puta
A:Reference number: A44194; MUID:93059651; PMID:1331508
A:Accession: B44194
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-392 <KOI>
C:Cross-references: UNIPROT:P32506; GB:S48817
C:Superfamily: poliovirus receptor; immunoglobulin homology
F:259-314/Domain: immunoglobulin homology <IMM>

Query Match 10.7%; Score 234.5; DB 2; Length 392;
Best Local Similarity 24.4%; Pred. No. 3.7e-09;
Matches 100; Conservative 58; Mismatches 180; Indels 71; Gaps 16;

Qy 1 AAPGLRLRLLLLLLAAALIPGQGNLFTKQVTV--IGEVATISC--QVKNSSDSDVI 56
Db 8 AWPP-----LLTLLELSWPPPGTGDIIVQAPTQVPFGLGDSVTLPCYLQVPGMEETHV 61
Qy 57 QLLNPNR-----QTIYFRDRLKDSRFLNLSSSELKVLNVS-----ISDSGRY 104
Db 62 SQTWSRHGSGMAVPHQTQPNYSBPKRLEFVAARLGTGLRDLASLRFMLRVEDSGNY 121
Qy 105 FCQLYTDPPOESYTT---ITVLVPRNLMDIQKDTAVEGEIEV-NCTAMASKPATIR 160
Db 122 TC-LFVTFPQGRSVDIWLRLAKPON-TAEVQK-VQLTGKVPVAVCVSTGGRPPAHIT 178
Qy 161 WFKGNKELKGKSEVEE---WSDMYTTSQMLKVKHKEDDGPVICOVEHPAVTGNLQTK 216
Db 179 W---HSLDGMPTNSQAPFLSGTIVTSLWILVPSQVDGKSVCKVEHSEKPOLLT 235
Qy 217 RYLEVQYKQVHIQMTYPLQGLREGDAFELTCEAIGKQPQVMVTVVRVDEMPQHAVALS 276
Db 236 VNLTVVYPPPEVSIS-GYDNNWYLSQNEA-TLTCDARSNPPTGYNWSTTGMPLPPFAVAQ 293
Qy 277 GPNLFINLNKTDNGTVRCASNIVGKAHSDYMLYVDDPTTTPPTTTTTTTTTTTTTTI 336
Db 294 GAQLLIRPVDPKPINTTFCINVTNMGARQAEITVQVKEGPPSEPS----- 338
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Qy 337 LTIITDSRAGEGTIGAVDHAVIGGVVAVFAMLCILILILGRYFARHK 385
Db 339 -----GMSNIIIFLILGIVI---LTLGLGVVYFYSR 369

RESULT 11
IJXLNL
neural cell adhesion molecule long domain form precursor - African clawed frog
N/Alternate names: NCAM-180
N/Contains: neural cell adhesion molecule, short domain form (NCAM-140)
C:Species: Xenopus laevis (African clawed frog)
C>Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 09-Jul-2004
C:Accession: S09600
R:Krieg, P.A.; Sakaguchi, D.S.; Kintner, C.R.
Nucleic Acids Res. 17, 10321-10335, 1989
A:Title: Primary structure and developmental expression of a large cytoplasmic domain fo
A:Reference number: S09600; MUID:90098871; PMID:2481269
A:Accession: S09600
A:Molecule type: mRNA
A:Residues: 1-1088 <KRI>
A:Cross-references: UNIPROT:P16170; EMBL:M25696; NID:G214609; PIDN:AAA49909.1; PID:G2146
A>Note: the authors translated the codon AAA for residue 970 as Leu
C:Comment: NCAM mediates cell-cell adhesion via homophilic binding with another NCAM mol.
C:Comment: Several forms of NCAM are produced by alternative splicing.
C:Genetics:
C:Gene: NCAM
C:Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu.
C:Keywords: alternative splicing; brain; cell adhesion; duplication; heparin binding; si
F:1-19/Domain: signal sequence #status predicted <SIG>
F:20-1088/Product: neural cell adhesion molecule, long domain form #status predicted <LD
F:20-803,1050-1088/Product: neural cell adhesion molecule, short domain form #status pre
F:20-705/Domain: extracellular #status predicted <EXT>
F:34-95/Domain: immunoglobulin homology <IMM1>
F:129-188/Domain: immunoglobulin homology <IMM2>
F:149-153/Region: heparin binding #status predicted
F:158-162/Region: heparin binding #status predicted
F:225-284/Domain: immunoglobulin homology <IMM3>
F:317-381/Domain: immunoglobulin homology <IMM4>
F:413-475/Domain: immunoglobulin homology <IMM5>
F:512-589/Domain: fibronectin type III repeat homology <FN3A>
F:618-679/Domain: fibronectin type III repeat homology <FN3B>
F:706-723/Domain: transmembrane #status predicted <TM>
F:724-1088/Domain: intracellular #status predicted <INT>
F:41-93,136-186,232-282,323-379,420-473/Disulfide bonds: #status predicted
F:219,310,341,417,443,472/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 10.7%; Score 234; DB 1; Length 1088;
Best Local Similarity 25.9%; Pred. No. 1.5e-08;
Matches 88; Conservative 62; Mismatches 148; Indels 42; Gaps 15;

Qy 32 KDVTVEGEVATISC---QVKNKS---DDSVIQLLN-----ENRQTIYFRDRLKDSRFQL 81
Db 199 KDIQVIVNPPTIQARQLRVNATANMAESVVLSCDADGFPDPEISLWLGKGEPIEDGE-EK 257
Qy 82 LNFSSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPRNLMDIQKDTAVEG 141
Db 258 ISFNDQSEMTIHHVKDEAEYSC-IANNQAGEAEATILLKVKYAKPKITYVENKTAVEL 316
Qy 142 EEEVNTAMASKPATIRFWKGNKE-----LKGKSEVEESDMYTVTSQMLKVKHKE 194
Db 317 DEITLTCEA-SGDPISITWRTAVRNISSEATLDGHIVVKEHIRM-----SALTLDKIQY 371
Qy 195 DGGVPVICQVEHPAVTGNLQTRYLEVQYKQVHIQMTYPLQGLREGDAFELTCEAIGK 254
Db 372 TDAGEYFCIASNP-IGVDMQAM-YFEVQYAPKIR---GFWVYVWTEGPNWITCEVFAH 425
Qy 255 PQPMVTVVRVDEMPQHA-----AVLSGP---NLFINLNKTDNGTVRCASNIVGKAHS 306
Db 426 PR-AAVTWFRDQGLLPSSNFSNFKIYSGPTSSSLEVPNPSDENFGNCTAINTIGHEFS 484
Qy 307 DYMLYVYDPTTTPPTTTTTTTTTTTTTTTTTTTTTTTTTITDSRAG 346
Db 485 EFILVQADTPSS---PAIRKVBYSSTVMIVFDEPDSTGG 521
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Db 242 YPEVSIIS-GYDNNWYLQNEA-TLTCARSNPPTGYNWSTTGMPLPPFAVAQAQLLI 299
QY 283 NNLNKTONGYRCASNIHVKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTIITD 342
Db 300 RPVDKPTINTTLCNVNTALGARQAEVLVQVKE-----GPPSEHS----- 338
QY 343 SRAGEGTIGAVDHAIVGGVAVVAVFAMCLLIILGRYF 381
Db 339 -----GMSRNAILFLVLGILVF---LILGIGIYF 365

RESULT 14
I56551
neurotrophin - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 09-Jul-2004
C;Accession: I56551
R;Struyk, A.F.; Canoll, P.D.; Wolfgang, M.J.; Rosen, C.L.; D'Eustachio, P.; Salzer, J.L.
J. Neurosci. 15, 2141-2156, 1995
A;Title: Cloning of neurotrophin defines a new subfamily of differentially expressed neur
A;Reference number: I56551; MUID:9519094; PMID:7891157
A;Accession: I56551
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-344 <RES>
A;Cross-references: UNIPROT:Q62718; EMBL:U16845; NID:G755184; PIDN:AAAG7445.1; PID:G7551
C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin

Query Match 10.5%; Score 231; DB 2; Length 344;
Best Local Similarity 26.2%; Pred. No. 5.5e-09;
Matches 85; Conservative 56; Mismatches 134; Indels 50; Gaps 15;

QY 10 LLLLLSAAALIPFG-----DQNLFTK---DVTVIEGVATISQVKNKSDSDSVIQLNPN 62
Db 14 LVVSLRLFLVPTGVPVRSGDATFPKAMDVTVRQGESATLRCTI---DNRVTRVAWLN 70
QY 63 RQTI-YFRDPRPLKDSRFOLLNSSLSELKVLNLSISDEGRYFCQLYTD-PPQESYTTI 120
Db 71 RSTILVAGNDKWLDPRLVLLSNTQTOYSIEIQNVVDYDEGPTCVQTDNHPKTSRVHL 130
QY 121 TLVLPPLNLMIDIQOTAV-EGEEIEVNTAMASKPATTIRWFKGNKELKGKSEVEWSD 179
Db 131 IVQVSPK--IVEISSDISINEGNNISLTCLIA-TGRPEPTVTRHISPKAVGFVSEDEYLE 187
QY 180 MYTTSOLMLKVH---KEDDGVPIQVEHPAVTGNLQTORYLEVQYKPVQHIQMTYPLQ 236
Db 188 IQGITREQSGEYECASNDVAAPVVRVN-----VTVNYPPYIS-----EAK 229
QY 237 GL-TREGDAFELCEAIGKQPQVMTVVRVDDMPQ-----HAVLSGPNLFINLN 286
Db 230 GTGVFVGQKGTLOCEASAVFS-AEFQWFKDKRLVEGKGVKVENRPFLLSRLTFF--NVS 286
QY 287 KTDNGYRCASNIHVKAHSDYMLY 311
Db 287 EHDYGNVTCVASKLGHNTASIMLP 311

RESULT 15
I38346
elastic titin - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C;Accession: I38346
R;Labeit, S.; Kolmerer, B.
Science 270, 293-296, 1995
A;Title: Titrins: giant proteins in charge of muscle ultrastructure and elasticity.
A;Reference number: A57430; MUID:96026330; PMID:7569978
A;Accession: I38346
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-7962 <RES>
A;Cross-references: UNIPROT:Q10465; EMBL:X90569; NID:gl017426; PIDN:CAA62189.1; PID:gl01
C;Genetics:

A;Gene: GDB:TTN
A;Cross-references: GDB:127867; OMIM:188840
A;Map position: 2q31-2q31

Query Match 10.4%; Score 228.5; DB 2; Length 7962;
Best Local Similarity 26.1%; Pred. No. 4.4e-07;
Matches 80; Conservative 55; Mismatches 130; Indels 41; Gaps 13;

QY 35 TVIEGEVATISQVKNKSDSDSVIQ---LLN-----PNQTIYFRDPRPLKDSRFOLLNF 84
Db 770 TVLDRDIAPFTFKPLRNVDVSVNGTCRLDCKIAGSLPMRVS-WFKDGKEIAASDRYRIAF 828
QY 85 SSSELKVSLSLTVNSISDEGRYFCQLYTD-PPQESYTTITVLVPPRLNLMIDIQKDTAVGEE 143
Db 829 VEGTASLEIIRVDMNDAGNFTCRATNSVGSKSGALIVQEPSPFVTKPGSKD-VLPESA 887
QY 144 IEVNTAMASKPATTIRWFKGNKELKG-----KSEVEWSDMYTTSOLMLKVHKEED 196
Db 888 VCLKSTFQGSTP-LTIRWFKGNKELVSGGSCYITKEALESLELYLV-----KTSD 937
QY 197 GVPVICOVEHPAVTGNLQTORYLEVQYKPVQHIQMTYPLQGLTREGDAFELTCEAIGKPQ 256
Db 938 SGTYTCKVSN--VAGGVECSANLFVK-EPATFVEKLEPSQ-LLKKGDATQLACKVTGTP- 992
QY 257 PVMVTVVRVDDMPQHA-----VLSGPNLFINLNKTNGTYRCASNIHVKAHSDYML 310
Db 993 PIKITWFANDREIKESSKHRMSFVESTAVLRLTLDVGIEDSGEYVCEAQNAGSDHCSSIV 1052
QY 311 VVYDPP 316
Db 1053 IVKESP 1058

Search completed: June 28, 2005, 09:54:47
Job time : 26.9399 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:38:22 ; Search time 106.117 Seconds
(without alignments)
2041.237 Million cell updates/sec

Title: US-10-622-237-4
Perfect score: 2197
Sequence: 1 AAPPGLRLRLRLRLLSAAL.....TAINAEGGQNNSEKKEYP 423

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt 03.1*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2197	100.0	445	2	Q8R41L1
2	2193	99.8	445	2	Q8K3T6
3	2176.5	99.1	456	2	Q8R5M8
4	2166	98.6	442	2	Q9BY67
5	2138.5	97.3	476	2	O6AYP5
6	2048.5	93.2	428	2	O6F3J3
7	2027	92.3	417	2	Q7TNL1
8	2020.5	92.0	443	2	Q8N2F4
9	1631	74.2	336	2	Q8OVG4
10	1631	74.2	336	2	Q9D6E7
11	1615	73.5	333	2	Q86WB8
12	1546	70.4	295	2	Q9Z2H8
13	1513.5	68.9	306	2	Q9GYI4
14	1493	68.0	295	2	Q9QYL6
15	1404	63.9	289	2	Q9QYL5
16	1380.5	62.8	278	2	Q9QYL3
17	897	40.8	435	2	Q8N3J6
18	895	40.7	437	2	Q8I2P8
19	869.5	39.6	433	2	Q8DJ83
20	864	39.3	404	2	Q8BLQ9
21	860	39.1	404	2	Q8BYP1
22	857	39.0	395	2	Q8BXJ7
23	854	38.9	395	2	Q8B2P4
24	826.5	37.6	405	2	O6PFF4
25	800	36.4	394	2	Q7ZXX1
26	798.5	36.3	390	2	Q66KX2
27	766.5	34.9	388	2	Q8NF28
28	757.5	34.5	388	2	Q8R4F4
29	739.5	33.7	396	2	Q9N2E8
30	732.5	33.3	398	2	Q8N126
31	730.5	33.2	381	2	Q9Y4A4

32	715.5	32.6	432	2	Q9UJY1
33	648.5	29.5	231	2	Q658Q7
34	413	18.8	84	2	Q6MZK6
35	389	17.7	177	2	Q6NUR8
36	371.5	16.9	163	2	Q8KIH8
37	362.5	16.5	163	2	Q9NVJ5
38	360.5	16.4	152	2	Q8BSQ8
39	337.5	15.4	549	2	Q9D006
40	334.5	15.2	549	2	Q9JLB9
41	325.5	14.8	549	2	Q9NQS3
42	323	14.7	234	2	Q8I2Q9
43	303.5	13.8	438	2	Q9JLB7
44	303.5	13.8	510	2	Q9JLB8
45	283	12.9	439	2	O57349

ALIGNMENTS

RESULT 1					
Q8R4L1	Q8R4L1	PRELIMINARY;	PRT;	445	AA.
AC	Q8R4L1;				
DT	01-JUN-2002 (T-EMBLrel. 21, Created)				
DT	01-JUN-2002 (T-EMBLrel. 21, Last sequence update)				
DT	01-OCT-2003 (T-EMBLrel. 25, Last annotation update)				
DE	Tumor suppressor in lung cancer 1.				
GN	Name=Igsf4a;				
OS	Mus musculus (Mouse).				
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.				
OX	NCBI_TaxID=10090;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RC	STRAIN=129/SVJ;				
RX	MDLINE=22226620; PubMed=12242005; DOI=10.1016/S0378-1119(02)00835-1;				
RA	Fukami T., Satoh H., Fujita E., Maruyama T., Fukuhara H.,				
RA	Kuramochi M., Takamoto S., Momoi T., Murakami Y.,				
RT	"Identification of the Telc1 gene, a mouse orthologue of the human				
RT	tumor suppressor TSLC1 gene."				
RL	Gene 295;7-12(2002).				
DR	EMBL; AF434663; AAL86736.1; -				
DR	MGD; MGI:1889272; Igsf4a.				
DR	GO; GO:0016021; C:integral to membrane; TAS.				
DR	GO; GO:0045202; C:synapse; IDA.				
DR	GO; GO:0008021; C:synaptic vesicle; IDA.				
DR	GO; GO:0005515; F:protein binding; IPI.				
DR	GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.				
DR	GO; GO:0007155; P:cell adhesion; IDA.				
DR	GO; GO:0007416; P:synaptogenesis; IDA.				
DR	InterPro; IPR007110; Ig-like.				
DR	InterPro; IPR003598; Ig C2.				
DR	InterPro; IPR003585; Neurexin-like.				
DR	Pfam; PF00047; ig; 2.				
DR	SMART; SM00294; 4.im; 1.				
DR	SMART; SM00408; IGC2; 1.				
DR	SMART; PS00835; IG_LIKE; 3.				
SQ	SEQUENCE 445 AA; 48664 MW; C5D5A070DAF70E55 CRC64;				
Query Match 100.0%; Score 2197; DB 2; Length 445;					
Best Local Similarity 100.0%; Pred. No. 4.1e-149;					
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1	AAPPGLRLRLRLRLLSAALIP	TDGQNLTKDVTVEGEVATIS	CQVNSDDSVIQLLN	60
Db	22	AAPPGLRLRLRLRLLSAALIP	TDGQNLTKDVTVEGEVATIS	CQVNSDDSVIQLLN	81
QY	61	PNRQTYFRDPRFKDSRFLN	FSSELKSLVSLTNVSI	DEGRYFCQLYTDP	120
Db	82	PNRQTYFRDPRFKDSRFLN	FSSELKSLVSLTNVSI	DEGRYFCQLYTDP	141
QY	121	TVLVPRLNLMIDKQTA	VEGEIEVNCATAMASK	PATTINFKCNKELK	180


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QY 1 AAPPGLRLRLRLRLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 60
Db 22 AAPPGLRLRLRLRLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 81
QY 61 PNRTIYFRDPRPLKDSRFQLLNFSSELKSVLTVNSISDEGRYFCQLYTDPPOESYTTI 120
Db 82 PNRTIYFRDPRPLKDSRFQLLNFSSELKSVLTVNSISDEGRYFCQLYTDPPOESYTTI 141
QY 121 TVLPPNRLMIDIOKDTAVEGEEIEVNCTAMASKPATTTIRFWKGNKELKKGKSEVEEWSDM 180
Db 142 TVLPPNRLMIDIOKDTAVEGEEIEVNCTAMASKPATTTIRFWKGNKELKKGKSEVEEWSDM 201
QY 181 YTVTSQMLMLVKHKEDDGVPIVCQVEHPAVTGNLQRYLEVOYKQPQVHIQMTYFLOGLTR 240
Db 202 YTVTSQMLMLVKHKEDDGVPIVCQVEHPAVTGNLQRYLEVOYKQPQVHIQMTYFLOGLTR 261
QY 241 EGDAPFELTCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINNKNKTNDNGTYRCEASNI 300
Db 262 EGDAPFELTCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINNKNKTNDNGTYRCEASNI 321
QY 301 VGRAHSDYMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 349
Db 322 VGRAHSDYMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 381
QY 350 TIGAVDHAVIGGVAVVVFVAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINA 409
Db 382 TIGAVDHAVIGGVAVVVFVAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINA 441
QY 410 EGGQNNSEKKEYF 423
Db 442 EGGQNNSEKKEYF 455

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RESULT 4

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Q9BY67 ID Q9BY67 PRELIMINARY; PRT; 442 AA.
AC Q9BY67;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DE Nectin-like protein 2.
GN Name=NECL2;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
RL Submitted (MAR-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF132811; AAFe9029.1; -.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig C2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS0835; IG_LIKE; 3.
SQ SEQUENCE 442 AA; 48537 MW; 68183E3238735062 CRC64;

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Query Match 98.6%; Score 2166; DB 2; Length 442;
Best Local Similarity 98.6%; Pred. No. 6.7e-147;
Matches 417; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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QY 1 AAPPGLRLRLRLRLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 60
Db 19 AAPPGLRLRLRLRLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNRTIYFRDPRPLKDSRFQLLNFSSELKSVLTVNSISDEGRYFCQLYTDPPOESYTTI 120
Db 79 PNRTIYFRDPRPLKDSRFQLLNFSSELKSVLTVNSISDEGRYFCQLYTDPPOESYTTI 138
QY 121 TVLPPNRLMIDIOKDTAVEGEEIEVNCTAMASKPATTTIRFWKGNKELKKGKSEVEEWSDM 180

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Db 139 TVLPPNRLMIDIOKDTAVEGEEIEVNCTAMASKPATTTIRFWKGNKELKKGKSEVEEWSDM 198
QY 181 YTVTSQMLMLVKHKEDDGVPIVCQVEHPAVTGNLQRYLEVOYKQPQVHIQMTYFLOGLTR 240
Db 199 YTVTSQMLMLVKHKEDDGVPIVCQVEHPAVTGNLQRYLEVOYKQPQVHIQMTYFLOGLTR 258
QY 241 EGDAPFELTCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINNKNKTNDNGTYRCEASNI 300
Db 259 EGDAPFELTCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINNKNKTNDNGTYRCEASNI 318
QY 301 VGRAHSDYMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGRAHSDYMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVAVVVFVAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAGGQNNSEKK 420
Db 379 GVAVVVFVAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAGGQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441

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RESULT 5

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Q6AYP5 ID Q6AYP5 PRELIMINARY; PRT; 476 AA.
AC Q6AYP5;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE Hypothetical protein.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,
RA Dratchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udell T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RA Director MGC Project;
RL Submitted (AUG-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC078966; AAH78966.1; -.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF00047; Ig; 3.
DR SMART; SM00409; Ig; 3.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS0835; IG_LIKE; 3.

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DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00408; Igc2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 336 AA; 37155 MW; 9EF3D08BB8E5E8F72 CRC64;

Query Match 74.2%; Score 1631; DB 2; Length 336;
Best Local Similarity 100.0%; Pred. No. 1e-108;
Matches 313; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPGRLRLRLLLLLSAAALIPGDCGNLPTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 22 AAPGRLRLRLLLLLSAAALIPGDCGNLPTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 81
QY 61 PNRQTYIFRDFRPLKDSRFQQLNFFSSSELKVSITNVSISDEGRYFCQLYTDPDQESYTTI 120
Db 82 PNRQTYIFRDFRPLKDSRFQQLNFFSSSELKVSITNVSISDEGRYFCQLYTDPDQESYTTI 141
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 180
Db 142 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 201
QY 181 YTVTSQMLKVKHKEDDGVPIQVEHPAVTGNLQTORYLEYQVKPQVHIQMTYPLQGLTR 240
Db 202 YTVTSQMLKVKHKEDDGVPIQVEHPAVTGNLQTORYLEYQVKPQVHIQMTYPLQGLTR 261
QY 241 EGDFAFELTCEAIGKPGQPVMTVVRVDDMPQHAVLSPNLFINNLTNDGTGRCEASNI 300
Db 262 EGDFAFELTCEAIGKPGQPVMTVVRVDDMPQHAVLSPNLFINNLTNDGTGRCEASNI 321
QY 301 VGKAHSDYMLVYV 313
Db 322 VGKAHSDYMLVYV 334

RESULT 10
QYD6E7 PRELIMINARY; PRT; 336 AA.
AC QYD6E7;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched
DE library, clone:2900073G06 product:immunoglobulin superfamily, member
DE 4. full insert sequence.
GN Names:Igcf4a; (Mouse).
OS Mus musculus
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=9279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RA The RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).

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RN RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
RT "Normalization and subtraction of cap-trapper-selected cDNAs to
RT prepare full-length cDNA libraries for rapid discovery of new genes.";
RL Genome Res. 10:1617-1630(2000).
RN [5]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=2030913; PubMed=11076861; DOI=10.1101/gr.152600;
RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Washiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Tanaka T., Ohara E., Wataniki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RT "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RL Genome Res. 10:1757-1771(2000).
RN [6]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=2030913; PubMed=11076861; DOI=10.1101/gr.152600;
RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,
RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,
RA Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ohno M.,
RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,
RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,
RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
RA Muramatsu M., Hayashizaki Y.;
RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK013775; BAB28988.1; --
DR MGD; MGI:1889272; Igcf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00408; Igc2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 336 AA; 37157 MW; FF887FAP4EPDF120 CRC64;

Query Match 74.2%; Score 1631; DB 2; Length 336;
Best Local Similarity 100.0%; Pred. No. 1e-108;
Matches 313; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPGRLRLRLLLLLSAAALIPGDCGNLPTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 22 AAPGRLRLRLLLLLSAAALIPGDCGNLPTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 81
QY 61 PNRQTYIFRDFRPLKDSRFQQLNFFSSSELKVSITNVSISDEGRYFCQLYTDPDQESYTTI 120
Db 82 PNRQTYIFRDFRPLKDSRFQQLNFFSSSELKVSITNVSISDEGRYFCQLYTDPDQESYTTI 141
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 180
Db 142 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 201
QY 181 YTVTSQMLKVKHKEDDGVPIQVEHPAVTGNLQTORYLEYQVKPQVHIQMTYPLQGLTR 240
Db 202 YTVTSQMLKVKHKEDDGVPIQVEHPAVTGNLQTORYLEYQVKPQVHIQMTYPLQGLTR 261

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DR MGD; MGI:1889272; Igsf4a.
DR GO:0016021; C:integral to membrane; TAS.
DR GO:0045202; C:synapse; IDA.
DR GO:0008021; C:synaptic vesicle; IDA.
DR GO:0005515; P:protein binding; IPI.
DR GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO:0007155; P:cell adhesion; IDA.
DR GO:0007416; P:cell adhesion; IDA.
DR GO:0007155; P:cell adhesion; IDA.
DR InterPro: IPR007110; IG-like.
DR InterPro: IPR003598; IG_c2.
DR Pfam: PF00047; ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 306 AA; 33522 MW; A4CE37B0F23554D5 CRC64;

Query Match      68.9%; Score 1513.5; DB 2; Length 306;
Best Local Similarity 95.4%; Pred. No. 2.4e-100;
Matches 291; Conservative 1; Mismatches 2; Indels 11; Gaps 1;

QY 130 MIDIQKDTAVEGEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEEWSDMYTVTSQML 189
Db 1 MIDIQKDTAVEGEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEEWSDMYTVTSQML 60

QY 190 KVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDAFELTC 249
Db 61 KVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALELTC 120

QY 250 EAIGKQPQVMVTVRVDDDEMPQHAVLSGPNLFINLNKTDNGTYRCEASNIIVGKAHSDYM 309
Db 121 EAIGKQPQVMVTVRVDDDEMPQHAVLSGPNLFINLNKTDNGTYRCEASNIIVGKAHSDYI 180

QY 310 LVYVDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 358
Db 181 LVYVDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 240

QY 359 IGGVAVVVFAMLCIIILGRYFARHKGTFTYFTEAKGADDAADATTAIINAEQQNNSEE 418
Db 241 IGGVAVVVFAMLCIIILGRYFARHKGTFTYFTEAKGADDAADATTAIINAEQQNNSEE 300

QY 419 KKQYF 423
Db 301 KKQYF 305

[1]

RESULT 14
Q9QYL6 PRELIMINARY; PRT; 295 AA.
AC Q9QYL6;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RAI75A.
GN Name=Igsf4a; Synonyms=rai75a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021964; BAA87914.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO:0016021; C:integral to membrane; TAS.
DR GO:0045202; C:synapse; IDA.
DR GO:0008021; C:synaptic vesicle; IDA.
DR GO:0016021; C:protein binding; IPI.
DR GO:0005515; P:calcium-independent cell-cell adhesion; IDA.
DR GO:0007155; P:cell adhesion; IDA.
DR InterPro: IPR007110; IG-like.
DR InterPro: IPR003598; IG_c2.
DR Pfam: PF00047; ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 289 AA; 31811 MW; 8D1B836D0565AEA4 CRC64;
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DR GO:0007155; P:cell adhesion; IDA.
DR GO:0007416; P:synaptogenesis; IDA.
DR InterPro: IPR007110; IG-like.
DR InterPro: IPR003598; IG_c2.
DR InterPro: IPR003585; Neuroxin-like.
DR Pfam: PF00047; ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 295 AA; 32347 MW; FDD9E8145C6B971B CRC64;

Query Match      68.0%; Score 1493; DB 2; Length 295;
Best Local Similarity 96.6%; Pred. No. 6.8e-99;
Matches 284; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

QY 130 MIDIQKDTAVEGEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEEWSDMYTVTSQML 189
Db 1 MIDIQKDTAVEGEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEEWSDMYTVTSQML 60

QY 190 KVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDAFELTC 249
Db 61 KVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALELTC 120

QY 250 EAIGKQPQVMVTVRVDDDEMPQHAVLSGPNLFINLNKTDNGTYRCEASNIIVGKAHSDYM 309
Db 121 EAIGKQPQVMVTVRVDDDEMPQHAVLSGPNLFINLNKTDNGTYRCEASNIIVGKAHSDYI 180

QY 310 LVYVDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 369
Db 181 LVYVDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 240

QY 370 MLCIIILGRYFARHKGTFTYFTEAKGADDAADATTAIINAEQQNNSEBKEKYF 423
Db 241 MLCIIILGRYFARHKGTFTYFTEAKGADDAADATTAIINAEQQNNSEBKEKYF 294

[1]

RESULT 15
Q9QYL5 PRELIMINARY; PRT; 289 AA.
AC Q9QYL5;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RAI75B.
GN Name=Igsf4a; Synonyms=rai75b;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021965; BAA87915.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO:0016021; C:integral to membrane; TAS.
DR GO:0045202; C:synapse; IDA.
DR GO:0008021; C:synaptic vesicle; IDA.
DR GO:0005515; P:protein binding; IPI.
DR GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO:0007155; P:cell adhesion; IDA.
DR GO:0007416; P:synaptogenesis; IDA.
DR InterPro: IPR007110; IG-like.
DR InterPro: IPR003598; IG_c2.
DR Pfam: PF00047; ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 289 AA; 31811 MW; 8D1B836D0565AEA4 CRC64;
```

Query Match		63.9%;	Score 1404;	DB 2;	Length 289;
Best Local Similarity		92.5%;	Pred. No. 1.6e-92;		
Matches 272;		Conservative 2;	Mismatches 14;	Indels 6;	Gaps 1;
Qy	130	MIDIQKDTAVEGEEIEVNC	TAMASKPAT	TIRWFKGNKELK	GKSEVEWSDMYT
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Qy	190	KVHKEDDGPVICQVEHP	AVTGNLTOR	YLEVQYKQVHIQ	MTYPLQGLTREGDA
Db	61	KVHKEDDGPVICQVEHP	AVTGNLTOR	YLEVQYKQVHIQ	MTYPLQGLTREGDA
Qy	250	EAIKGPQPVWVTWVRV	DEMPQHAVL	SGPNLFINN	LNKTDNGTYRCEAS
Db	121	EAIKGPQPVWVTWVRV	DEMPQHAVL	SGPNLFINN	LNKTDNGTYRCEAS
Qy	310	LYVYDPTTTPPP	TTTTTTTT	TTTTTTTT	TTTTTTTT
Db	181	LYVYDPTTTPPP	TTTTTTTT	TTTTTTTT	TTTTTTTT
Qy	370	MLCLLIILGRYFAR	HKGTYFTHEAKG	ADDAADADTA	IINAE
Db	235	MLCLLIILGRYFAR	HKGTYFTHEAKG	ADDAADADTA	IINAE

Search completed: June 28, 2005, 09:53:50
Job time : 107.117 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:38:22 ; Search time 113.452 Seconds
(without alignments)
1442.016 Million cell updates/sec

Title: US-10-622-237-4
Perfect score: 2197
Sequence: 1 APPGRLRLRLLLLSAAL.....TALLNAEGQNNSEKKEYP 423

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_16Dec04:*
1: Genesecp1980s:*
2: Genesecp1990s:*
3: Genesecp2000s:*
4: Genesecp2001s:*
5: Genesecp2002s:*
6: Genesecp2003as:*
7: Genesecp2003bs:*
8: Genesecp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2197	100.0	423	3 AAY45093	Aay45093 Mouse lym
2	2169	98.7	442	3 AAB25619	Aab25619 Protein e
3	2169	98.7	442	3 AAY94341	Aay94341 Human cel
4	2169	98.7	442	3 AAY45092	Aay45092 Human lym
5	2169	98.7	442	5 AAE19887	Aae19887 Human tum
6	2169	98.7	442	5 ABP62825	Abp62825 Human pol
7	2169	98.7	442	6 ADA27144	Ada27144 Human nov
8	2169	98.7	442	7 ADE54238	Ades4238 Human pro
9	2169	98.7	442	8 ADE86685	Ade86685 Novel hum
10	2166	98.6	442	6 ABO07196	Abo07196 Human p53
11	2166	98.6	442	6 ABO07231	Abo07231 Human p53
12	2166	98.6	442	7 ADE61605	Ade61605 Human pro
13	2166	98.6	442	7 ADE61608	Ade61608 Human pro
14	2149	97.8	440	2 AAY17830	Aay17830 Human pro
15	2149	97.8	440	3 AAB01321	Aab01321 Human pro
16	2149	97.8	440	4 AAU29040	Aau29040 Human pro
17	2149	97.8	440	6 ABUS8416	Abu58416 Human pro
18	2149	97.8	440	6 ABUS7964	Abu87964 Novel hum
19	2149	97.8	440	6 ABUS4279	Abu84279 Human sec
20	2149	97.8	440	6 ABR66153	Abr66153 Human sec
21	2149	97.8	440	6 ABR65543	Abr65543 Human sec
22	2149	97.8	440	6 ABUS9483	Abu9483 Human sec
23	2149	97.8	440	6 ABUS5930	Abu55930 Human sec
24	2149	97.8	440	6 ABUS2722	Abu82722 Human pro
25	2149	97.8	440	6 ABUS9843	Abu89843 Novel hum

26	2149	97.8	440	6 ABR68092	Abr68092 Human sec
27	2149	97.8	440	6 ABUS6145	Abu96145 Novel hum
28	2149	97.8	440	6 ABUS2576	Abu92576 Human sec
29	2149	97.8	440	6 ABO08653	Abo08653 Human sec
30	2149	97.8	440	6 ABO02705	Abo02705 Human sec
31	2149	97.8	440	6 ABR74859	Abr74859 Human sec
32	2149	97.8	440	6 ABR94621	Abr94621 Human sec
33	2149	97.8	440	6 ABUS60240	Abu60240 Human pro
34	2149	97.8	440	6 ABUS5594	Abu85594 Human pro
35	2149	97.8	440	6 ABUS98754	Abu98754 Novel hum
36	2149	97.8	440	6 ABUS97969	Abu97969 Novel hum
37	2149	97.8	440	6 ABUS91675	Abu91675 Novel hum
38	2149	97.8	440	6 ABUS9368	Abu89368 Human pro
39	2149	97.8	440	6 ABUS86209	Abu86209 Human sec
40	2149	97.8	440	6 ABUS67422	Abu67422 Human sec
41	2149	97.8	440	6 ABUS80450	Abu80450 Human pro
42	2149	97.8	440	6 ABR99368	Abr99368 Human sec
43	2149	97.8	440	6 ABR98758	Abr98758 Human sec
44	2149	97.8	440	6 ABO16281	Abo16281 Human sec
45	2149	97.8	440	6 ABR92181	Abr92181 Human sec

ALIGNMENTS

RESULT 1

AAY45093
ID AAY45093 standard; protein; 423 AA.

XX AAY45093;

XX AC

XX 31-MAY-2000 (first entry)

DE Mouse lymphoid derived dendritic cell adhesion molecule.

XX Lymphoid derived dendritic cell adhesion molecule; LDCAM; mouse; B7-1;
B7-1; T cell proliferation; natural killer cell; NK; tumour cell;
biological activity; quality control reagent; treatment; inflammation;
immune system disorder; autoimmune; viral infection; infectious disease;
organ transplant rejection; bone marrow; modulator; immune response.

XX Mus sp.

Key	Location/Qualifiers
Domain	1..356
FT	/label= Extracellular_domain
FT	Modified-site 49..51
FT	/note= "N-Glycosylation site"
FT	Modified-site 83..85
FT	/note= "N-Glycosylation site"
FT	Modified-site 95..97
FT	/note= "N-Glycosylation site"
FT	Modified-site 147..149
FT	/note= "N-Glycosylation site"
FT	Modified-site 286..288
FT	/note= "N-Glycosylation site"
FT	Modified-site 290..292
FT	/note= "N-Glycosylation site"
Domain	357..377
FT	/label= Transmembrane_domain
Domain	378..423
FT	/label= Cytoplasmic_domain

WO200008158-A2.

PD 17-FEB-2000.

XX 05-AUG-1999; 99WO-US017905.

XX 07-AUG-1998; 98US-0095672P.

PA (IMMV) IMMUNEX CORP.

XX

PI	Baum PR, Fanslow WC;	DT	21-NOV-2000 (first entry)	Protein encoded by human secreted protein gene #11.
XX	WPI; 2000-205712/18.	XX		
DR	N-PSDB; AAZ50883.	XX		
XX	Novel molecules designated LDCAM are capable of altering or modulating T cell function.	KW	Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic; antirheumatic, dermatological; antiproliferative; antiarteriosclerotic; anticancer; vulnary; antiviral; antibacterial; antifungal; immune disorder; Addison's disease; rheumatoid arthritis; dermatitis; multiple sclerosis; inflammatory disorder; inflammatory bowel disease; Crohn's disease; nephritis; hyperproliferative disorder; cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer; melanoma; lymphoma; wound healing; human.	
PS	Claim 7; Page 46-47; 44pp; English.	OS	Homo sapiens.	
XX	The present amino acid sequence is the mouse lymphoid derived dendritic cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic cells and displays homology to adhesion molecules, B7-1 and cytoplasmic region of B7-Li. Mouse LDCAM is found on whole embryo, testes, triple negative cells murine splenic and lymph node CD8+, S49.1 and dendritic cells. LDCAM polypeptides interacts with T cell surface molecules to alter signalling and inhibits T cell proliferation, bind to themselves and B7L-1, an LDCAM binding protein and increases natural killer (NK) cell populations. It may be used to measure the biological activity and as quality control reagents of LDCAM binding proteins. LDCAM may be used for treating disorders associated with malfunctioning of immune system, inflammation, autoimmune disorders, viral infected cells, infectious diseases and for killing tumour cells. They are also useful for prevention or reducing the effect of organ and bone marrow transplant rejection and for modulating T cell immune responses. LDCAM polypeptides may also be used as carriers for delivering agents attached to T cells or cells bearing B7L-1	XX	WO200029435-A1.	
XX	Sequence 423 AA;	XX	25-MAY-2000.	
XX		XX	27-OCT-1999; 99WO-US025031.	
XX		XX	28-OCT-1998; 98US-0105971P.	
XX		XX	(HUMA-) HUMAN GENOME SCI INC.	
XX		XX	Ni J, Ruben SM, Olsen HS, Young PE, Kenny JJ, Moore PA, Wei Y; Greene JM;	
XX		XX	WPI; 2000-387742/33.	
XX		XX	Isolated nucleic acid molecules encoding human secreted proteins are used for the prevention, amelioration and treatment of autoimmune, inflammatory, hyperproliferative and cardiovascular disorders, cancer, wounds, and infectious diseases.	
XX		XX	Disclosure; Page 182-183; 803pp; English.	
XX		XX	The present invention relates to 12 secreted human proteins and the nucleotide sequences encoding them. The polynucleotide sequences given in AAA80606-A80623 encode the 12 secreted protein sequences given in AAB25578-B25593. The human secreted proteins have various activities dependent on the tissues in which they are expressed. Examples of the activities of the proteins include: immunosuppressant; anti-inflammatory; antirheumatic, dermatological; antiproliferative; antiarthritic; antirheumatic, dermatological; antiproliferative; antiarteriosclerotic; anticancer; vulnary; antiviral; antibacterial; and antifungal activity. The proteins, polypeptides, agonists and antagonists may be used to treat prevent and/or diagnose various disease, disorders and conditions examples of which include: immune disorders e.g. Addison's disease, rheumatoid arthritis, dermatitis, and multiple sclerosis; inflammatory disorders e.g. inflammatory bowel disease, Crohn's disease and nephritis; hyperproliferative disorders such as paraproteinaemias and purpura; cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis; cancer e.g. melanoma and lymphoma. The proteins and polynucleotide sequences may also be used in wound healing and the treatment of infectious diseases. The human secreted protein gene #11 and protein sequences are represented in sequences AAA80616 and AAB25586. Sequences AAA80677-A80682 represent genes related to the secreted protein gene#11	
XX		XX	Sequence 442 AA;	
XX		XX	Query Match 98.7%; Score 2169; DB 3; Length 442;	
XX		XX	Best Local Similarity 98.8%; Pred. No. 2.9e-149;	
XX		XX	Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;	
QY	1 AAPPGLRLRLLLLLLSAAALIPGDCQNLFPTKDVTVIEGEVATISQVKNKSDSVIQLLN 60	QY	1 AAPPGLRLRLLLLLLSAAALIPGDCQNLFPTKDVTVIEGEVATISQVKNKSDSVIQLLN 60	
Db	1 AAPPGLRLRLLLLLLSAAALIPGDCQNLFPTKDVTVIEGEVATISQVKNKSDSVIQLLN 60	Db	19 AAPPGLRLRLLLLLLSAAALIPGDCQNLFPTKDVTVIEGEVATISQVKNKSDSVIQLLN 78	
QY	61 PNRQTIYFRDFRPLKDSRFPOLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTI 120	QY	61 PNRQTIYFRDFRPLKDSRFPOLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTI 120	
Db	61 PNRQTIYFRDFRPLKDSRFPOLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTI 120	Db	79 PNRQTIYFRDFRPLKDSRFPOLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTI 138	
QY	121 TVLVPRLNLMIDIKQTAVEGEBIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 180	QY	121 TVLVPRLNLMIDIKQTAVEGEBIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 180	
Db	121 TVLVPRLNLMIDIKQTAVEGEBIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 180	Db	121 TVLVPRLNLMIDIKQTAVEGEBIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 180	
QY	181 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQTOYLEVQKPVQHIQMTYPLQGLTR 240	QY	181 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQTOYLEVQKPVQHIQMTYPLQGLTR 240	
Db	181 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQTOYLEVQKPVQHIQMTYPLQGLTR 240	Db	181 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQTOYLEVQKPVQHIQMTYPLQGLTR 240	
QY	241 EGDFAFELTCEAIGKPOPMVWTVRVDDEMPQHAVLSPNLFINNKNKTGTYRCEASNI 300	QY	241 EGDFAFELTCEAIGKPOPMVWTVRVDDEMPQHAVLSPNLFINNKNKTGTYRCEASNI 300	
Db	241 EGDFAFELTCEAIGKPOPMVWTVRVDDEMPQHAVLSPNLFINNKNKTGTYRCEASNI 300	Db	241 EGDFAFELTCEAIGKPOPMVWTVRVDDEMPQHAVLSPNLFINNKNKTGTYRCEASNI 300	
QY	301 VGRAHSDYMLYVYDPTTIPPTTT 360	QY	301 VGRAHSDYMLYVYDPTTIPPTTT 360	
Db	301 VGRAHSDYMLYVYDPTTIPPTTT 360	Db	301 VGRAHSDYMLYVYDPTTIPPTTT 360	
QY	361 GVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGQNNSEKK 420	QY	361 GVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGQNNSEKK 420	
Db	361 GVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGQNNSEKK 420	Db	361 GVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGQNNSEKK 420	
QY	421 EYF 423	QY	421 EYF 423	
Db	421 EYF 423	Db	421 EYF 423	
RESULT 2		RESULT 2		
AAB25619		AAB25619		
ID AAB25619 standard; protein; 442 AA.		ID AAB25619 standard; protein; 442 AA.		
XX		XX		
AC		AC		
XX		XX		

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QY 121 TVLPPRLMIDIOKTAVEGEEIEVNCTAMASKPATTIRWFKNKELKKGSEVEWSDM 180
Db 139 TVLPPRLMIDIOKTAVEGEEIEVNCTAMASKPATTIRWFKNKELKKGSEVEWSDM 198
QY 181 YTVTSQLMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQYKQPQVHIQMTYPLQGLTR 240
Db 199 YTVTSQLMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQYKQPQVHIQMTYPLQGLTR 258
QY 241 EGDAPFELTCEAIGKQPQVMTWVRVDDMPQHAVLSPNLFINNLTNDGTTRCEASNI 300
Db 259 EGDALFELTCEAIGKQPQVMTWVRVDDMPQHAVLSPNLFINNLTNDGTTRCEASNI 318
QY 301 VGRAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTITDSRAGEGTIGAVDHAIVG 360
Db 319 VGRAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTITDSRAGEGTIGAVDHAIVG 378
QY 361 GVAVVVVFAMLCILLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEQGNNSSEKK 420
Db 379 GVAVVVVFAMLCILLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEQGNNSSEKK 438
QY 421 EYF 423
Db 439 EYF 441

RESULT 3
AA94341
ID AA94341 standard; protein; 442 AA.
XX
AC AA94341;
XX
DT 22-AUG-2000 (first entry)
XX
DE Human cell surface receptor protein #8.
XX
KW Human; HCSR; cytotatic; antiarthritic; antirheumatic; antiaerhmatic;
KW immunosuppressive; antiarteriosclerotic; antibacterial; antiparasitic;
KW neuroprotective; nootropic; anticonvulsant; cancer; leukaemia; melanoma;
KW rheumatoid arthritis; asthma; atherosclerosis; akathesia;
KW Alzheimer's diseases; multiple sclerosis; epilepsy.
XX
OS Homo sapiens.
XX
FH Key
FT Peptide
FT 1. .44
FT /label= Signal_peptide
FT Protein
FT 45. .442
FT /label= HCSR-8
FT Region
FT 53
FT /note= "potential phosphorylation site"
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FT 57. .126
FT /label= Immunoglobulin_domain
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FT 67
FT /note= "potential glycosylation site"
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FT 103
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FT /note= "potential phosphorylation site"
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FT 190
FT /note= "potential phosphorylation site"
FT Region
FT 233
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FT Region
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FT 310 /note= "potential phosphorylation site"
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FT 329 /note= "potential phosphorylation site"
FT Region
FT 368 /note= "potential phosphorylation site"
FT Domain
FT 375. .394
FT /label= Transmembrane_domain
FT Region
FT 432 /note= "potential glycosylation site"
XX
XX WO200028032-A2.
PN
XX 18-MAY-2000.
PD
XX
XX 12-NOV-1999; 99WO-US026742.
XX
XX 12-NOV-1998; 98US-00191280.
PR 07-DEC-1998; 98US-00206647.
PR 08-MAR-1999; 99US-0123404P.
XX
XX (INCY-) INCYTE PHARM INC.
XX
XX Tang YT, Corley NC, Guegler KJ, Yue H, Baughn MR, Lal P;
XX Hillman JL, Bandman O, Azimzai Y, Au-Young J;
XX
XX WPI; 2000-376546/32.
DR N-PSDB; AAA27051.
XX
XX New human cell surface receptor protein and polynucleotide useful for
XX diagnosis, prevention and treatment of cancer, immune disorders,
XX infection and neuronal disorders.
XX
XX Claim 1; Page 81-82; 97pp; English.
XX
XX The present sequence is a novel human cell surface receptor protein
XX (HCSR) designated HCSR-8. The nucleotide sequence was identified in
XX Incyte Clone 312256 from the cDNA library LUNGNOT02, which was made from
XX RNA isolated from lung tissue. A number of Incyte Clones were used to
XX assemble the consensus sequence. BLAST analysis showed that the sequence
XX is homologous to immuno-superfamily protein B12 g3779242. HCSR and its
XX antagonist are useful for preventing or treating disorders associated
XX with decreased or increased expression or activity of HCSR. Such
XX disorders include cancers such as leukaemia and melanoma, immune
XX disorders such as rheumatoid arthritis, asthma and atherosclerosis,
XX bacterial and parasitic infections and neuronal disorders such as
XX akathesia, Alzheimer's disease, multiple sclerosis and epilepsy.
XX Polynucleotides encoding HCSRs may be used as hybridisation probes to
XX diagnose these conditions. Anti-HCSR antibodies may be used as
XX antagonists, as a targeting or delivery mechanism for bringing
XX pharmaceutical agents into contact with cells or tissues expressing HCSR
XX and for diagnosis of HCSR-related disorders. HCSR and its catalytic or
XX immunogenic fragments are useful for drug screening using libraries of
XX compounds
XX
XX Sequence 442 AA;
SQ
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Query Match 98.7%; Score 2169; DB 3; Length 442;
Best Local Similarity 98.8%; Pred. No. 2.9e-149;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
QY 1 AAPGRLRLRLLLLSAALIPGDCQNLPTKDVTVIEGEVATISCVNKSDDSVIQLLN 60
Db 19 AAPGRLRLRLLLLSAALIPGDCQNLPTKDVTVIEGEVATISCVNKSDDSVIQLLN 78
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QY 61 PNRQTIYFRDPLKDSRFQLLNFSSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPLKDSRFQLLNFSSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEBIEVNCCTAMASKPATTTIRFWFGNKELKGKSVBEWSDM 180
Db 139 TVLVPPRNLMIDIQKDTAVEGEBIEVNCCTAMASKPATTTIRFWFGNKELKGKSVBEWSDM 198
QY 181 YTVTSQMLKVKHKKDDGVPVICQVEHPAVTGNLQORYLEVQYKPVQHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHKKDDGVPVICQVEHPAVTGNLQORYLEVQYKPVQHIQMTYPLQGLTR 258
QY 241 EGDALFELTCEAIGKPOQVVMVTVRVDDEMPQHAVLSGPNLFNNLKNKTNGTYRCASNI 300
Db 259 EGDALFELTCEAIGKPOQVVMVTVRVDDEMPQHAVLSGPNLFNNLKNKTNGTYRCASNI 318
QY 301 VGKASHDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKASHDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADADATAIINAEQGNNEEKK 420
Db 379 GVVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADADATAIINAEQGNNEEKK 438
QY 421 EYF 423
Db 439 EYF 441
RESULT 4
AAV45092
ID AAV45092 standard; protein; 442 AA.
AC AAV45092;
XX
DT 31-MAY-2000 (first entry)
XX
DE Human lymphoid derived dendritic cell adhesion molecule.
XX
KW Lymphoid derived dendritic cell adhesion molecule; LDCAM; human; B7-1;
KW B7-L1; T cell proliferation; natural killer cell; NK; tumour cell;
KW biological activity; quality control reagent; treatment; inflammation;
KW immune system disorder; autoimmune; viral infection; infectious disease;
KW organ transplant rejection; bone marrow; modulator; immune response.
OS Homo sapiens.
XX
FH Key Location/Qualifiers
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FT /label= Extracellular_domain
FT Peptide 1..38
FT /label= Leader_peptide
FT Protein 39..442
FT /label= Mature_human_ldcam_polypeptide
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FT /note= "N-Glycosylation site"
FT Modified-site 101..103
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FT Domain 375..395
FT /label= Transmembrane_domain
FT Domain 396..442
FT /label= Cytoplasmic_domain
XX
PN WO200008158-A2.

XX 17-FEB-2000.
XX 05-AUG-1999; 99WO-US017905.
XX 07-AUG-1998; 98US-0095672P.
XX (IMMV) IMMUNEX CORP.
XX Baum PR, Fanslow WC;
XX WPI; 2000-205712/18.
DR N-PSDB; AAZ50882.
XX Novel molecules designated LDCAM are capable of altering or modulating T
XX cell function.
XX Claim 7; Page 42-43; 44pp; English.
XX The present amino acid sequence is the human lymphoid derived dendritic
XX cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic
XX cells and displays homology to adhesion molecules, B7-1 and cytoplasmic
XX region of B7-L1. Human LDCAM is expressed in breast, retina, foetal
XX liver, spleen and heart, lung, muscle, placenta, thyroid and lung
XX carcinoma. LDCAM polypeptides interacts with T cell surface molecules to
XX alter signalling and inhibits T cell proliferation, bind to themselves
XX and B7L-1, an LDCAM binding protein and increases natural killer (NK)
XX cell populations. It may be used to measure the biological activity and
XX as quality control reagents of LDCAM binding proteins. LDCAM may be used
XX for treating disorders associated with malfunctioning of immune system,
XX inflammation, autoimmune disorders, viral infected cells, infectious
XX diseases and for killing tumour cells. They are also useful for
XX prevention or reducing the effect of organ and bone marrow transplant
XX rejection and for modulating T cell immune responses. LDCAM polypeptides
XX may also be used as carriers for delivering agents attached to T cells or
XX cells bearing B7L-1
XX SQ Sequence 442 AA;
Query Match 98.7%; Score 2169; DB 3; Length 442;
Best Local Similarity 98.8%; Pred. No. 2.9e-149;
Matches 418; Conservative 1; Mismatches 14; Indels 0; Gaps 0;
QY 1 AAPPGLRLRLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLN 60
Db 19 AAPPGLRLRLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLN 78
QY 61 PNRQTIYFRDPLKDSRFQLLNFSSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPLKDSRFQLLNFSSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEBIEVNCCTAMASKPATTTIRFWFGNKELKGKSVBEWSDM 180
Db 139 TVLVPPRNLMIDIQKDTAVEGEBIEVNCCTAMASKPATTTIRFWFGNKELKGKSVBEWSDM 198
QY 181 YTVTSQMLKVKHKKDDGVPVICQVEHPAVTGNLQORYLEVQYKPVQHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHKKDDGVPVICQVEHPAVTGNLQORYLEVQYKPVQHIQMTYPLQGLTR 258
QY 241 EGDALFELTCEAIGKPOQVVMVTVRVDDEMPQHAVLSGPNLFNNLKNKTNGTYRCASNI 300
Db 259 EGDALFELTCEAIGKPOQVVMVTVRVDDEMPQHAVLSGPNLFNNLKNKTNGTYRCASNI 318
QY 301 VGKASHDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKASHDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADADATAIINAEQGNNEEKK 420
Db 379 GVVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADADATAIINAEQGNNEEKK 438
QY 421 EYF 423
Db 439 EYF 442
|||

Db	439	EYF 441	
RESULT 5			
AAE19887			
ID	AAE19887	standard; protein; 442 AA.	
XX	AC	AAE19887;	
AC	AAE19887;		
XX	18-JUN-2002	(first entry)	
DT	XX		
XX	Human tumour suppressor lung cancer 1 (TSLC1) polypeptide.		
DE	XX		
XX	Human; hepatocellular carcinoma; tumour suppressor lung cancer 1; TSLC1;		
KW	KW	liver; lung; pancreatic cancer; cell proliferative disorder; cytostatic;	
KW	KW	gene therapy.	
XX	XX		
OS	XX	Homo sapiens.	
XX	XX		
PN	WO200214557-A1.		
XX	21-FEB-2002.		
PD	XX		
XX	15-AUG-2001;	2001WO-US025690.	
PF	XX		
XX	15-AUG-2000;	2000US-0225264P.	
PR	XX		
XX	(UYJO) UNIV JOHNS HOPKINS SCHOOL MEDICINE.		
PA	XX		
XX	Reeves RH, Yoshinori M;		
PI	XX		
XX	WPI; 2002-241913/29.		
DR	XX		
XX	Detecting cell proliferative disorder associated with tumor suppressor		
PT	PT	lung cancer (TSLC) 1 in subject, comprises contacting proliferating cell	
PT	PT	of subject with reagent detecting TSLC1 and detecting modification in	
PT	PT	TSLC1 level.	
XX	XX		
PS	PS	Disclosure; Page 49-50; 59pp; English.	
XX	XX		
CC	CC	The invention relates to a method for detecting cell proliferative	
CC	CC	disorder associated with tumour suppressor lung cancer 1 (TSLC1) in a	
CC	CC	subject. The method comprising contacting a cell component of a	
CC	CC	proliferating cell with a reagent that detects level of the cell	
CC	CC	component in the proliferating cell and determining modification in the	
CC	CC	level of the cell component in proliferating cell as compared with a	
CC	CC	healthy cell, where modification indicates disorder associated with	
CC	CC	TSLC1. The method is useful for detecting a cell proliferative disorder	
CC	CC	(e.g. liver, lung or pancreatic cancer) associated with tumour suppressor	
CC	CC	lung cancer 1 (TSLC1) in a subject. The invention is useful in gene	
CC	CC	therapy and for treating a cell proliferative disorder such as lung	
CC	CC	cancer (human non-small cell lung cancer), liver cancer (hepatocellular	
CC	CC	carcinoma) or pancreatic cancer associated with modification of TSLC1	
CC	CC	production, where a reagent which modulates (preferably, increases) TSLC1	
CC	CC	level in the cells, is employed. The present sequence is human TSLC1	
XX	XX		
SQ	SQ	Sequence 442 AA;	
Query Match	98.7%	Score 2169; DB 5; Length 442;	
Best Local Similarity	98.8%	Pred. No. 2.9e-149;	
Matches 418; Conservative	1; Mismatches	4; Indels	0; Gaps
0;			
Qy	1	AAPGLRLRLLLLSAAALIPTDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN	60
Db	19	AAPGLRLRLLLLSAAALIPTDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN	78
Qy	61	PNRQTYFRFRFLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFQLYTDPDQESYTTI	120
Db	79	PNRQTYFRFRFLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFQLYTDPDQESYTTI	138
Qy	121	TVLVPRLNLMIDIKQOTAVGEIEVNTACTAWASKPATTTIRFWKGNELKKGKSVESWSDM	180
Db	139	TVLVPRLNLMIDIKQOTAVGEIEVNTACTAWASKPATTTIRFWKGNELKKGKSVESWSDM	198

QY	181	YTVTSQMLKVKHKBDDGVPVICOVEHPAVTGNLQTORYLEVQYKPKQVHIQMTYFLOGLTR	240
Db	199	YTVTSQMLKVKHKBDDGVPVICOVEHPAVTGNLQTORYLEVQYKPKQVHIQMTYFLOGLTR	258
QY	241	EGDAPELTCEAIGKPOPVVMTVVRVDEMPQHAVLSPNLFINNKNKTNDNGTYRCEASNI	300
Db	259	EGDAPELTCEAIGKPOPVVMTVVRVDEMPQHAVLSPNLFINNKNKTNDNGTYRCEASNI	318
QY	301	VGKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTITITISRAGESEGTIGAVDHA	360
Db	319	VGKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTITITISRAGESEGTIGAVDHA	378
QY	361	GVAVVVFAMLCIIILGRYFAHKGCTYTHEAKGADDAADATAIINARGGQNNSEKK	420
Db	379	GVAVVVFAMLCIIILGRYFAHKGCTYTHEAKGADDAADATAIINARGGQNNSEKK	438
QY	421	EYF 423	
Db	439	EYF 441	
RESULT 6			
ABP62825			
ID	ABP62825	standard; protein; 442 AA.	
XX	AC	ABP62825;	
XX	14-OCT-2002	(first entry)	
DT	XX		
XX	Human polypeptide SEQ ID NO 262.		
DE	XX		
XX	Human; vulnary; dermatological; neuroprotective; nootropic; cancer;		
KW	KW	antiparkinsonian; immunostimulant; cytostatic; immunosuppressive;	
KW	KW	antidiabetic; antiallergic; gene therapy; wound healing; tissue repair;	
KW	KW	burn; central nervous system disorder; Alzheimer's disease;	
KW	KW	Parkinson's disease; Huntington's disease; immune disorder;	
XX	XX	autoimmune disorder; multiple sclerosis; diabetes; allergy.	
XX	OS	Homo sapiens.	
XX	PN	WO200218424-A2.	
XX	XX		
PD	PD	07-MAR-2002.	
XX	XX		
PF	PF	31-AUG-2001; 2001WO-US027093.	
XX	XX		
PR	XX	01-SEP-2000; 2000US-00654935.	
XX	XX	(HYSB-) HYSEQ INC.	
PA	PA	Tang YT, Asundi V, Zhou P, Xue AJ, Ren F, Zhang J, Wang J;	
XX	PI	Zhao QA, Wang D, Liu C, Drmanac RT, Wehrman T;	
XX	PI	WPI; 2002-583321/62.	
XX	DR	N-PSDB; ABQ93304.	
XX	XX		
PT	PT	New polynucleotide and polypeptides, useful for treatment and diagnosis	
PT	PT	of Alzheimer's, Parkinson's, Huntington's, amyotrophic lateral	
PT	PT	sclerosis, immune deficiencies, cancer, autoimmune disorders, multiple	
PT	PT	sclerosis, diabetes and allergies.	
XX	XX	Claim 20; SEQ ID NO 262; 284pp + Sequence Listing; English.	
PS	PS	The invention relates to an isolated polynucleotide (I) comprising one of	
XX	XX	245 sequences (ABQ93288-ABQ93532). Treating a condition comprising	
CC	CC	administering to a mammalian subject a composition comprising the protein	
CC	CC	(ii) encoded by (i) (ABP62809-ABP63053) or an antibody (iii) to (ii).	
CC	CC	(i), (ii) and (iii) are useful for diagnostic evaluation of disorders.	
CC	CC	(i) is useful for gene therapy of diseases and (ii) can be used for	
CC	CC	therapeutic treatment. Diseases that may be treated include wound healing	
CC	CC	and tissue repair, burns, central nervous system disorders (e.g.	
CC	CC	Alzheimer's, Parkinson's, Huntington's and amyotrophic lateral	

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CC sclerosis), immune deficiencies, cancer, autoimmune disorders, multiple
CC sclerosis, diabetes and allergies. Note: The sequence data for this
CC patent did not form part of the printed specification, but was obtained
CC in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 442 AA;
Query Match 98.7%; Score 2169; DB 5; Length 442;
Best Local Similarity 98.8%; Pred. No. 2.9e-149;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
QY 1 AAPPGRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLN 60
Db 19 AAPPGRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLN 78
QY 61 PNRQTIYFRDRLPKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDRLPKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 180
Db 139 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGPVVCQVEHPAVTGNLQTRYLEVOYKPVQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLMKVHKEDDGPVVCQVEHPAVTGNLQTRYLEVOYKPVQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKQPQVWTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCASNI 300
Db 259 EGDALELTCEAIGKQPQVWTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCASNI 318
QY 301 VGRAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTIDSRAGEGPTIGAVDHA 360
Db 319 VGRAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTIDSRAGEGGSIRAVDHA 378
QY 361 GVAVVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQGNNSSEKK 420
Db 379 GVAVVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQGNNSSEKK 438
QY 421 EYF 423
Db 439 EYF 441
RESULT 7
ADA27144
ID ADA27144 standard; protein; 442 AA.
XX
AC ADA27144;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human novel secreted protein from gene 11 #3.
KW cytosolic; antiinflammatory; immunomodulator; neuroprotective;
KW hemostatic; gene therapy; cancer; inflammation; immune disorder;
KW neurological disorder; blood clotting disorder; food additive;
KW preservative; human; secreted protein.
XX
OS Homo sapiens.
XX
PN US2003055231-A1.
XX
PD 20-MAR-2003.
XX
PF 29-OCT-2001; 2001US-00984130.
XX
PR 28-OCT-1998; 98US-0105971P.
PR 27-OCT-1999; 99WO-US025031.
PR 19-APR-2000; 2000US-0198407P.
PR 30-OCT-2000; 2000US-0243792P.
PR 18-APR-2001; 2001US-00836353.
```

```
XX
PA (NIJG/) NI J.
PA (YOUN/) YOUNG P E.
PA (KENN/) KENNY J J.
PA (OLSE/) OLSEN H S.
PA (MOOR/) MOORE P A.
PA (WEIY/) WEI Y.
PA (GREE/) GREENE J M.
PA (RUBE/) RUBEN S M.
PA (LIUD/) LIU D.
PA (CROC/) CROCKER P R.
XX
PI Ni J, Young PR, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;
Ruben SM, Liu D, Crocker PR;
XX
WPI; 2003-567103/53.
XX
New human secreted nucleic acid molecules and polypeptides, useful for
preventing, treating, or ameliorating a medical condition, such as
cancer, inflammation, immune disorders, neurological and blood clotting
disorders.
XX
PS Disclosure; Page 72; 454pp; English.
XX
The invention relates to an isolated nucleic molecule that is at least
95% identical to 18 human cDNA sequences representing 12 novel genes
encoding secreted proteins or a polynucleotide fragment of the cDNA
sequence contained in American Type Culture Collection (ATCC) deposit No.
defined in the specification, its species homologue, a variant or allelic
variant of the polynucleotide having a polynucleotide capable of
hybridizing under conditions the polynucleotide, where the polynucleotide
does not hybridise under stringent conditions to a nucleic acid molecule
having a nucleotide sequence of only A or T residues. Also included are
recombinant vectors, host cells (for producing the polypeptide), the
secreted polypeptide (comprising a sequence that is at least 95%
identical to a polypeptide fragment, domain, epitope, full-length
protein, variant, allelic variant or species homologue), antibodies that
specifically bind to the polypeptides, diagnosing, treating, preventing
or ameliorating a medical condition by administering the polynucleotide
or the polypeptide, the gene corresponding to the cDNA sequence and
identifying an activity in a biological assay (by expressing the cDNA
sequence in a cell, isolating the supernatant, and detecting an activity
in a biological assay and identifying the protein in the supernatant
having the activity). The polypeptides, nucleic acids and antibodies are
useful for diagnosing a pathological condition or a susceptibility to a
pathological condition, for preventing, treating, or ameliorating a
medical condition, such as cancer, inflammation and other immune
disorders, neurological and blood clotting disorders (many examples are
given in the specification). The nucleic acids are also useful for
chromosome identification, radiation hybrid mapping or long-range
restriction mapping. The polypeptides and antibodies are useful for
providing immunological probes for differential identification of the
tissues immunohistochemistry assays. The polypeptide, polynucleotide,
agonist or antagonist may also be used as a food additive or preservative
to increase or decrease storage capabilities, fat content or other
nutritional components. The present is a secreted protein of the
invention.
XX
SQ Sequence 442 AA;
Query Match 98.7%; Score 2169; DB 6; Length 442;
Best Local Similarity 98.8%; Pred. No. 2.9e-149;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
QY 1 AAPPGRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLN 60
Db 19 AAPPGRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLN 78
QY 61 PNRQTIYFRDRLPKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDRLPKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 180
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XX 10-JUL-2003.
XX 18-APR-2001; 2001US-00836353.
XX 28-OCT-1998; 98US-0105971P.
XX 27-OCT-1999; 99WO-US025031.
XX 19-APR-2000; 2000US-0198407P.
XX (NIJ/) NI J.
XX (YOUN/) YOUNG P E.
XX (KENN/) KENNY J J.
XX (OLSE/) OLSEN H S.
XX (MOOR/) MOORE P A.
XX (WEIV/) WEI Y.
XX (GREE/) GREENE J M.
XX (RUBE/) RUBEN S M.
XX Ni J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;
PI Ruben SM;
XX WPI; 2004-020335/02.
XX New nucleic acid molecule, useful for preparing a medicament for
PT preventing, treating or ameliorating a medical condition e.g. cancer,
PT liver disorders or neural disorders.
XX Disclosure; SEQ ID NO 136; 380pp; English.
XX The invention relates to an isolated nucleic acid sequence, or its
CC allelic variant, a fragment of the cDNA sequence, or its fragment,
CC domain, epitope or species homologue. The nucleic acid is useful for
CC preparing a medicament for preventing, treating or ameliorating a medical
CC condition e.g., cancer, liver disorders such as hepatitis or neural
CC disorders such as Alzheimer's disease. The present sequence represents
CC the amino acid sequence of a novel human secreted protein associated
CC protein.
XX
SQ Sequence 442 AA;
Query Match 98.7%; Score 2169; DB 8; Length 442;
Best Local Similarity 98.8%; Pred. No. 2.9e-149;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
QY 1 AAPPGLRLRLLLLSAAALPTGDGNLFKDVTVIEGEVATISQVNVKSDSDSVQLLN 60
DB 19 AAPPGLRLRLLLLSAAALPTGDGNLFKDVTVIEGEVATISQVNVKSDSDSVQLLN 78
QY 61 PNRQTIYFRDRLPKDSRFOLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTI 120
DB 79 PNRQTIYFRDRLPKDSRFOLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTI 138
QY 121 TVLVPRLNLMIDTQKTAVEGEIEVNCNTAMASKPATITIRWFKGNTELKSKSVSEWSDM 180
DB 139 TVLVPRLNLMIDTQKTAVEGEIEVNCNTAMASKPATITIRWFKGNTELKSKSVSEWSDM 198
QY 181 YTVTSQMLKVKHEDDGPVICOVHPAVTGNLQRYLEVQYKPOVHIQMTYPLQGLTR 240
DB 199 YTVTSQMLKVKHEDDGPVICOVHPAVTGNLQRYLEVQYKPOVHIQMTYPLQGLTR 258
QY 241 EGDFAELTCEAIGKQPQVMYTVVRVDDMPQHAVLSGPNLFINNKNKTDNGTYRCASNI 300
DB 259 EGDFAELTCEAIGKQPQVMYTVVRVDDMPQHAVLSGPNLFINNKNKTDNGTYRCASNI 318
QY 301 VGKASDYMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTRAGEEGTIGAVDHAVIG 360
DB 319 VGKASDYMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTRAGEEGSIRAVDHAVIG 378
QY 361 GVAVVVFVAMLCILLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQGNNEEKK 420
DB 379 GVAVVVFVAMLCILLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQGNNEEKK 438
QY 421 EYF 423
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DB 439 EYF 441
||||
RESULT 10
ABO07196
ID ABO07196 standard; protein; 442 AA.
XX ABO07196;
XX 13-AUG-2003 (first entry)
DE Human p53 modifying protein, SEQ ID 156.
XX Human; p53 modifier; cytostatic; cancer; cytostatic; antiangiogenic;
KW antiapoptotic; p53 pathway; breast cancer; colon cancer; kidney cancer;
KW lung cancer; ovarian cancer; angiogenesis; cell cycle;
KW apoptotic disorder; cell proliferation disorder.
XX Homo sapiens.
XX WO200299122-A1.
XX 12-DEC-2002.
XX 03-JUN-2002; 2002WO-US017382.
XX 05-JUN-2001; 2001US-0296076P.
XX 10-OCT-2001; 2001US-0328605P.
XX 15-FEB-2002; 2002US-0357253P.
XX (EXEL-) EXELIXIS INC.
XX Friedman L, Plowman GD, Belvin M, Francis-Lang H, Li D, Funke RP;
XX WPI; 2003-156859/15.
XX N-PSDB; AC013371.
XX Identifying modulators of the p53 pathway for use in treating apoptotic
PT or cell proliferation disorders, comprises screening for agents that
PT modulate activity of a human ortholog of genes that modify the p53
PT pathway in Drosophila.
XX Example 2; Page 469-470; 678pp; English.
XX The invention relates to identifying (M1) a candidate p53 pathway
CC modulating agent, by contacting an assay system comprising a purified HM
CC polypeptide (human orthologue of genes that modify the p53 pathway in
CC Drosophila) or nucleic acid with a test agent under conditions, where but
CC for the presence of the test agent, the system provides a reference
CC activity, and detecting a test agent-biased activity of the assay system.
CC Also included are modulating (M2) a p53 pathway of a cell (comprising
CC contacting a cell defective in p53 function with a candidate modulator
CC that specifically binds to a HM polypeptide comprising an HM amino acid
CC sequence, where p53 function is restored), modulating (M3) a p53 pathway
CC in a mammalian cell (comprising contacting the cell with an agent that
CC specifically binds an HM polypeptide or nucleic acid) and diagnosing (M4)
CC a disease in a patient (comprising: (a) obtaining a biological sample
CC from the patient; (b) contacting the sample with a probe for HM
CC expression; (c) comparing the results with a control; and (d) determining
CC whether the comparison indicates a likelihood disease). (M1) is useful
CC for identifying modulators of the p53 pathway. A probe for HM expression
CC is useful for diagnosing breast, colon, kidney, lung and ovarian cancer,
CC in a patient, where the cancer has greater than 25 % expression level.
CC Modulators identified by (M1) are useful in a variety of diagnostic and
CC therapeutic applications, where disease or disorder prognosis is related
CC to defects in the p53 pathway, such as, angiogenesis, apoptotic or cell
CC proliferation disorders (e.g. cancer). Another two new methods (M2 and
CC M3) are useful for modulating the p53 pathway of a cell, thus restoring
CC the p53 function of the cell, so that the cell undergoes normal
CC proliferation or progression through the cell cycle. (M2) and (M3) are
CC also useful for treating defects in the p53 pathway such as angiogenic,
CC apoptotic or cell proliferation disorders. The present sequence
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CC represents a human p53 pathway modifying protein
XX
SQ Sequence 442 AA;

Query Match      98.6%; Score 2166; DB 6; Length 442;
Best Local Similarity 98.6%; Pred. No. 4.8e-149;
Matches 417; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 60
DQ |||||
DB 19 AAPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 120
DQ |||||
DB 79 PNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQDRTAVEGEIEVNCCTAMASKPATTTIRFWKGNELKKGSEVEEWSDM 180
DQ |||||
DB 139 TVLVPPRNLMIDIQDRTAVEGEIEVNCCTAMASKPATTTIRFWKGNELKKGSEVEEWSDM 198
QY 181 YTVTSQMLKVKHEDDGVPIQVEHPAVTGNLQRYLEYVQYKPQVHIQMTYPLQGLTR 240
DQ |||||
DB 199 YTVTSQMLKVKHEDDGVPIQVEHPAVTGNLQRYLEYVQYKPQVHIQMTYPLQGLTR 258
QY 241 EGDALFELTCEAIGKQPQVMTWVRVDEMPQHAVLSGPNLFINNKNTDNGTYRCEASNI 300
DQ |||||
DB 259 EGDALFELTCEAIGKQPQVMTWVRVDEMPQHAVLSGPNLFINNKNTDNGTYRCEASNI 318
QY 301 VGKASDYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
DQ |||||
DB 319 VGKASDYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVAVVVVFMALCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINASGGQNNSEKK 420
DQ |||||
DB 379 GVAVVVVFMALCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINASGGQNNSEKK 438

421 EYF 423
439 EYF 441

RESULT 11
ABO07231
ID ABO07231 standard; protein; 442 AA.
XX
AC ABO07231;
DT
DT 13-AUG-2003 (first entry)
XX
DE Human p53 modifying protein, SEQ ID 191.
XX
KW Human; p53 modifier; cytostatic; cancer; cytostatic; antiangiogenic;
KW antiapoptotic; p53 pathway; breast cancer; colon cancer; kidney cancer;
KW lung cancer; ovarian cancer; angiogenesis; cell cycle;
KW apoptotic disorder; cell proliferation disorder.
XX
OS Homo sapiens.
XX
PN WO200299122-A1.
XX
PD 12-DEC-2002.
XX
PF 03-JUN-2002; 2002WO-US017382.
XX
PR 05-JUN-2001; 2001US-0296076P.
PR 10-OCT-2001; 2001US-0328605P.
PR 15-FEB-2002; 2002US-0357253P.
XX
PA (EXEL-) EXELIXIS INC.
XX
PI Friedman L, Plowman GD, Belvin M, Francis-Lang H, Li D, Funke RP;
XX
XX WPI; 2003-156859/15.
XX
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DR N-PSDB; ACID13404.
XX
PT Identifying modulators of the p53 pathway for use in treating apoptotic
PT or cell proliferation disorders, comprises screening for agents that
PT modulate activity of a human ortholog of genes that modify the p53
PT pathway in Drosophila.
XX
PS Example 2; Page 557-559; 678pp; English.
XX
CC The invention relates to identifying (M1) a candidate p53 pathway
CC modulating agent, by contacting an assay system comprising a purified HM
CC polypeptide (human ortholog of genes that modify the p53 pathway in
CC Drosophila) or nucleic acid with a test agent under conditions, where but
CC for the presence of the test agent, the system provides a reference
CC activity, and detecting a test agent-biased activity of the assay system.
CC Also included are modulating (M2) a p53 pathway of a cell (comprising
CC contacting a cell defective in p53 function with a candidate modulator
CC that specifically binds to a HM polypeptide comprising an HM amino acid
CC sequence, where p53 function is restored), modulating (M3) a p53 pathway
CC in a mammalian cell (comprising contacting the cell with an agent that
CC specifically binds an HM polypeptide or nucleic acid) and diagnosing (M4)
CC a disease in a patient (comprising: (a) obtaining a biological sample
CC from the patient; (b) contacting the sample with a probe for HM
CC expression; (c) comparing the results with a control; and (d) determining
CC whether the comparison indicates a likelihood disease). (M1) is useful
CC for identifying modulators of the p53 pathway. A probe for HM expression
CC is useful for diagnosing breast, colon, kidney, lung and ovarian cancer,
CC in a patient, where the cancer has greater than 25 % expression level.
CC Modulators identified by (M1) are useful in a variety of diagnostic and
CC therapeutic applications, where disease or disorder prognosis is related
CC to defects in the p53 pathway, such as, angiogenesis, apoptotic or cell
CC proliferation disorders (e.g. cancer). Another two new methods (M2 and
CC M3) are useful for modulating the p53 pathway of a cell, thus restoring
CC the p53 function of the cell, so that the cell undergoes normal
CC proliferation or progression through the cell cycle. (M2) and (M3) are
CC also useful for treating defects in the p53 pathway such as angiogenic,
CC apoptotic or cell proliferation disorders. The present sequence
CC represents a human p53 pathway modifying protein
XX
SQ Sequence 442 AA;

Query Match      98.6%; Score 2166; DB 6; Length 442;
Best Local Similarity 98.6%; Pred. No. 4.8e-149;
Matches 417; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 60
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QY 61 PNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 120
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QY 121 TVLVPPRNLMIDIQDRTAVEGEIEVNCCTAMASKPATTTIRFWKGNELKKGSEVEEWSDM 180
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DB 199 YTVTSQMLKVKHEDDGVPIQVEHPAVTGNLQRYLEYVQYKPQVHIQMTYPLQGLTR 258
QY 241 EGDALFELTCEAIGKQPQVMTWVRVDEMPQHAVLSGPNLFINNKNTDNGTYRCEASNI 300
DQ |||||
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QY 301 VGKASDYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
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QY	421 EYF 423	Query Match	98.6%; Score 2166; DB 7; Length 442;
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		Matches 417; Conservative	2; Mismatches 4; Indels 0; Gaps 0;
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XX	DT	29-JAN-2004 (first entry)	
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DE	DE	Human; pain; neuronal tissue; gene therapy;	
XX	KW	spinal segmental nerve injury; chronic constriction injury; CCI;	
KW	KW	spared nerve injury; SNI; Chung.	
XX	OS	Homo sapiens.	
XX	PN	WO2003016475-A2.	
XX	XX	27-FEB-2003.	
XX	XX	14-AUG-2002; 2002WO-US025765.	
XX	XX	14-AUG-2001; 2001US-0312147P.	
PR	PR	01-NOV-2001; 2001US-0346382P.	
PR	PR	26-NOV-2001; 2001US-0333347P.	
XX	PA	(GEHO) GEN HOSPITAL CORP.	
PA	PA	(FARB) BAYER AG.	
XX	PI	Woelf C, D'urso D, Befort K, Costigan M;	
XX	XX	WPI; 2003-268312/26.	
DR	DR	GENBANK; AAF69029.	
PT	PT	New composition comprising two or more isolated polypeptides, useful for	
XX	XX	preparing a medicament for treating pain in an animal.	
PS	PS	Claim 1; Page; 1017pp; English.	
XX	XX	The invention discloses a composition comprising two or more isolated rat	
CC	CC	or human polynucleotides or a polynucleotide which represents a fragment,	
CC	CC	derivative or allelic variation of the nucleic acid sequence. Also	
CC	CC	claimed are a vector comprising the novel polynucleotide, a host cell	
CC	CC	comprising the vector, a method for identifying a nucleotide sequence	
CC	CC	which is differentially regulated in an animal subjected to pain and a	
CC	CC	kit to perform the method, an array, a method for identifying an agent	
CC	CC	that increases or decreases the expression of the polynucleotide sequence	
CC	CC	that is differentially expressed in neuronal tissue of a first animal	
CC	CC	subjected to pain, a method for identifying a compound which regulates	
CC	CC	the expression of a polynucleotide sequence which is differentially	
CC	CC	expressed in an animal subjected to pain, a method for identifying a	
CC	CC	compound that regulates the activity of one or more of the	
CC	CC	polynucleotides, a method for producing a pharmaceutical composition, a	
CC	CC	method for identifying a compound or small molecule that regulates the	
CC	CC	activity in an animal of one or more of the polypeptides given in the	
CC	CC	specification, a method for identifying a compound useful in treating	
CC	CC	pain and a pharmaceutical composition comprising the one or more	
CC	CC	polypeptides or their antibodies. The polynucleotide or the compound that	
CC	CC	modulates its activity is useful for preparing a medicament for treating	
CC	CC	pain (e.g. spinal segmental nerve injury (Chung), chronic constriction	
CC	CC	injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene	
CC	CC	therapy). The sequence presented is a human protein (shown in Table 2 of	
CC	CC	the specification) which is differentially expressed during pain. Note:	
CC	CC	The sequence data for this patent did not form part of the printed	
CC	CC	specification, but was obtained in electronic form directly from WIPO at	
CC	CC	ftp.wipo.int/pub/published_pct_sequences.	
XX	XX	Sequence 442 AA;	

PT New composition comprising two or more isolated polypeptides, useful for

PT preparing a medicament for treating pain in an animal.
PS Claim 1; Page; 1017pp; English.
XX

CC The invention discloses a composition comprising two or more isolated rat
CC or human polynucleotides or a polynucleotide which represents a fragment,
CC derivative or allelic variation of the nucleic acid sequence. Also
CC claimed are a vector comprising the novel polynucleotide, a host cell
CC comprising the vector, a method for identifying a nucleotide sequence
CC which is differentially regulated in an animal subjected to pain and a
CC kit to perform the method, an array, a method for identifying an agent
CC that increases or decreases the expression of the polynucleotide sequence
CC that is differentially expressed in neuronal tissue of a first animal
CC subjected to pain, a method for identifying a compound which regulates
CC the expression of a polynucleotide sequence which is differentially
CC expressed in an animal subjected to pain, a method for identifying a
CC compound that regulates the activity of one or more of the
CC polynucleotides, a method for producing a pharmaceutical composition, a
CC method for identifying a compound or small molecule that regulates the
CC activity in an animal of one or more of the polypeptides given in the
CC specification, a method for identifying a compound useful in treating
CC pain and a pharmaceutical composition comprising the one or more
CC polypeptides or their antibodies. The polynucleotide or the compound that
CC modulates its activity is useful for preparing a medicament for treating
CC pain (e.g. spinal segmental nerve injury (Chung), chronic constriction
CC injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
CC therapy). The sequence presented is a human protein (shown in Table 2 of
CC the specification) which is differentially expressed during pain. Note:
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic form directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX

XX Sequence 442 AA;
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Query Match 98.6%; Score 2166; DB 7; Length 442;
Best Local Similarity 98.6%; Pred. No. 4.8e-149;
Matches 417; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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DB 19 AAPPGLRLRLLLLLLSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
QY 61 PNRQTIYFRDPRFKDPRFLLNFSSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTI 120
DB 79 PNRQTIYFRDPRFKDPRFLLNFSSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCNTAMASKPATTIRFWKGNKELKSKSEVEEWSMD 180
DB 139 TVLVPPRNLMIDIQKDTAVEGEIEVNCNTAMASKPATTIRFWKGNKELKSKSEVEEWSMD 198
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QY 361 GVAVVVVFMCLLIILGRYFARHKGYFTTHEAKGADDAADADTAIINAEGGQNNSEKK 420
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QY 421 EYF 423
DB 439 EYF 441

RESULT 14
AA17830

AA17830 standard; protein; 440 AA.
AA17830;
12-AUG-1999 (first entry)
Human PRO355 protein sequence.
Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
secreted protein; transmembrane protein; inflammation disorder.
Homo sapiens.
WO9928462-A2.
10-JUN-1999.
01-DEC-1998; 98WO-US025108.
03-DEC-1997; 97US-0067411P.
11-DEC-1997; 97US-0069278P.
11-DEC-1997; 97US-0069334P.
12-DEC-1997; 97US-0069335P.
12-DEC-1997; 97US-0069425P.
16-DEC-1997; 97US-0069694P.
16-DEC-1997; 97US-0069696P.
16-DEC-1997; 97US-0069702P.
17-DEC-1997; 97US-0069870P.
17-DEC-1997; 97US-0069873P.
18-DEC-1997; 97US-0068017P.
05-JAN-1998; 98US-0070440P.
09-FEB-1998; 98US-0074086P.
09-FEB-1998; 98US-0074092P.
25-FEB-1998; 98US-0075945P.
(GETH) GENENTECH INC.
Wood WI, Goddard A, Gurney AL, Yuan J, Baker KP, Chen J;
WPI; 1999-371118/31.
N-PSDB; AAX80055.
Nucleic acids encoding PRO secreted and transmembrane proteins.
Claim 12; Fig 27; 123pp; English.
The present invention describes nucleic acids encoding PRO secreted and
transmembrane proteins used therapeutically. The PRO proteins have
cytostatic, anti-inflammatory, anti-proliferative and immunosuppressive
activity. The proteins and polynucleotides can be used in therapy,
identification of homologues, raising antibodies and design of probes and
primers. They can be used in a range of diseases related to proteins that
they have homology with, e.g. a PRO protein having homology to complement
proteins may be used in inflammatory responses
Sequence 440 AA;
Query Match 97.8%; Score 2149; DB 2; Length 440;
Best Local Similarity 98.3%; Pred. No. 8.2e-148;
Matches 416; Conservative 1; Mismatches 4; Indels 2; Gaps 1;

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Qy 421 EYF 423

Db 437 EYF 439

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Job time : 114.452 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:53:58 ; Search time 108.073 Seconds
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1505.131 Million cell updates/sec

Title: US-10-622-237-4
Perfect score: 2197
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Searched: 1717557 seqs, 384547976 residues

Total number of hits satisfying chosen parameters: 1717557

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	2197	100.0	423	9	US-09-778-510-22
2	2197	100.0	423	9	US-09-778-187B-4
3	2197	100.0	423	14	US-10-302-041-22
4	2197	100.0	423	16	US-10-622-237-4
5	2197	100.0	423	17	US-10-898-408-4
6	2197	100.0	445	15	US-10-015-115-112
7	2176.5	99.1	494	15	US-10-015-115-113
8	2169	98.7	442	9	US-09-778-510-20
9	2169	98.7	442	9	US-09-778-187B-2
10	2169	98.7	442	10	US-09-984-130-136
11	2169	98.7	442	10	US-09-836-353A-136

12	2169	98.7	442	14	US-10-302-041-20	Sequence 20, Appl
13	2169	98.7	442	14	US-10-403-107-1	Sequence 1, Appl
14	2169	98.7	442	15	US-10-015-115-111	Sequence 111, App
15	2169	98.7	442	15	US-10-363-616-262	Sequence 262, App
16	2169	98.7	442	16	US-10-622-237-2	Sequence 2, Appl
17	2169	98.7	442	17	US-10-898-408-2	Sequence 2, Appl
18	2166	98.6	442	15	US-10-015-115-110	Sequence 110, App
19	2149	97.8	440	9	US-09-866-028-61	Sequence 61, Appl
20	2149	97.8	440	9	US-09-944-449-61	Sequence 61, Appl
21	2149	97.8	440	9	US-09-944-457-61	Sequence 61, Appl
22	2149	97.8	440	9	US-09-944-862-61	Sequence 61, Appl
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25	2149	97.8	440	9	US-09-944-396-61	Sequence 61, Appl
26	2149	97.8	440	9	US-09-944-432-61	Sequence 61, Appl
27	2149	97.8	440	9	US-09-943-762-61	Sequence 61, Appl
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38	2149	97.8	440	10	US-09-943-780-61	Sequence 61, Appl
39	2149	97.8	440	10	US-09-945-584-61	Sequence 61, Appl
40	2149	97.8	440	11	US-09-943-664-61	Sequence 61, Appl
41	2149	97.8	440	13	US-10-052-586-34	Sequence 34, Appl
42	2149	97.8	440	14	US-10-174-590-34	Sequence 34, Appl
43	2149	97.8	440	14	US-10-176-758-34	Sequence 34, Appl
44	2149	97.8	440	14	US-10-175-737-34	Sequence 34, Appl
45	2149	97.8	440	14	US-10-174-581-34	Sequence 34, Appl

ALIGNMENTS

RESULT 1
US-09-778-510-22
; Sequence 22, Application US/09778510
; Patent No. US20020164686A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 22
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-778-510-22

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RESULT 2
US-09-778-187B-4
; Sequence 4, Application US/09778187B
; Publication No. US20020168712A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/09/778,187B
; CURRENT FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 4
; LENGTH: 423
; TYPE: PRT
; ORGANISM: mus musculus
US-09-778-187B-4

Query Match 100.0%; Score 2197; DB 9; Length 423;
Best Local Similarity 100.0%; Pred. No. 1.2e-153;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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US-10-302-041-22
; Sequence 22, Application US/10302041
; Publication No. US20030144478A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/10/302,041
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 22
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-302-041-22

Query Match 100.0%; Score 2197; DB 14; Length 423;
Best Local Similarity 100.0%; Pred. No. 1.2e-153;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAPGLRLRLILLLSAAALIPGQGNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60
Db 1 AAPGLRLRLILLLSAAALIPGQGNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60
QY 61 PNQTIYFRDPRPLKDSRFOLLNFSSELKVSITNVSISDEGRYFCQLYTDPQESYTTI 120
Db 61 PNQTIYFRDPRPLKDSRFOLLNFSSELKVSITNVSISDEGRYFCQLYTDPQESYTTI 120
QY 121 TVLVPPRLMIDIQKTAVGEIEVNVCTAMASKPATTIRFWKGNKELKGKSEVEWSDM 180
Db 121 TVLVPPRLMIDIQKTAVGEIEVNVCTAMASKPATTIRFWKGNKELKGKSEVEWSDM 180
QY 181 YTVTSQMLKVKHEDDGPVVCQVEHPAVTGNLQOTQRYLEVQYKQVHIQMTYPLQGLTR 240
Db 181 YTVTSQMLKVKHEDDGPVVCQVEHPAVTGNLQOTQRYLEVQYKQVHIQMTYPLQGLTR 240
QY 241 EGDAFELTCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
Db 241 EGDAFELTCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
QY 301 VGKASDMLYVYDPPPTTIPPTTT 360
Db 301 VGKASDMLYVYDPPPTTIPPTTT 360
QY 361 GVAVVVFAMCLLIILGRYFARHKGTYFTHKAGDAADADATAIINAEAGGQNNSEKK 420
Db 361 GVAVVVFAMCLLIILGRYFARHKGTYFTHKAGDAADADATAIINAEAGGQNNSEKK 420
QY 421 EYF 423
Db 421 EYF 423

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RESULT 4
US-10-622-237-4
; Sequence 4, Application US/10622237
; Publication No. US20040204568A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; APPLICANT: Fanslow III, William C
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/10/622,237
; CURRENT FILING DATE: 2003-07-17
; PRIOR APPLICATION NUMBER: US/09/778,187B
; PRIOR FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; TYPE: PRT
; ORGANISM: mus musculus
US-10-622-237-4

Query Match      100.0%; Score 2197; DB 16; Length 423;
Best Local Similarity 100.0%; Pred. No. 1.2e-153;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPPGLRLRLLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60
Db 1 AAPPGLRLRLLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60
QY 61 PNRQTIYFRDRLKDSRFQLLNFSSSELKVSLSNTVSIISDEGRYFCOLYTDPPQESYTTI 120
Db 61 PNRQTIYFRDRLKDSRFQLLNFSSSELKVSLSNTVSIISDEGRYFCOLYTDPPQESYTTI 120
QY 121 TVLVPPRLNLMIDIKQTAVEGEEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEWSDM 180
Db 121 TVLVPPRLNLMIDIKQTAVEGEEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEWSDM 180
QY 181 YTVTSQMLKLVKHKDDGVPVICOVEHPAVTGNLQRYLEVQYKPVQVHIQMTYPLQGLTR 240
Db 181 YTVTSQMLKLVKHKDDGVPVICOVEHPAVTGNLQRYLEVQYKPVQVHIQMTYPLQGLTR 240
QY 241 EGDAPFELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
Db 241 EGDAPFELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
QY 301 VGKASDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAVIG 360
Db 301 VGKASDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAVIG 360
QY 361 GVAVVVFAMLCILIIILGRYFARHKGTFTHEAKGADDAADATAIINAEQGNNSSEKK 420
Db 361 GVAVVVFAMLCILIIILGRYFARHKGTFTHEAKGADDAADATAIINAEQGNNSSEKK 420
QY 421 EYF 423
Db 421 EYF 423

RESULT 6
US-10-015-115-112
; Sequence 112, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Zerhusen, Bryan D
; APPLICANT: Patturajan, Meera
; APPLICANT: Guo, Xiaojia
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Esha A
; APPLICANT: Shimkete, Richard A
; APPLICANT: Taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; CURRENT FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598
; PRIOR FILING DATE: 2000-11-17

Query Match      100.0%; Score 2197; DB 17; Length 423;
Best Local Similarity 100.0%; Pred. No. 1.2e-153;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPPGLRLRLLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60
Db 1 AAPPGLRLRLLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60
QY 61 PNRQTIYFRDRLKDSRFQLLNFSSSELKVSLSNTVSIISDEGRYFCOLYTDPPQESYTTI 120
Db 61 PNRQTIYFRDRLKDSRFQLLNFSSSELKVSLSNTVSIISDEGRYFCOLYTDPPQESYTTI 120
QY 121 TVLVPPRLNLMIDIKQTAVEGEEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEWSDM 180
Db 121 TVLVPPRLNLMIDIKQTAVEGEEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEWSDM 180
QY 181 YTVTSQMLKLVKHKDDGVPVICOVEHPAVTGNLQRYLEVQYKPVQVHIQMTYPLQGLTR 240
Db 181 YTVTSQMLKLVKHKDDGVPVICOVEHPAVTGNLQRYLEVQYKPVQVHIQMTYPLQGLTR 240
QY 241 EGDAPFELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
Db 241 EGDAPFELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
QY 301 VGKASDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAVIG 360
Db 301 VGKASDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAVIG 360
QY 361 GVAVVVFAMLCILIIILGRYFARHKGTFTHEAKGADDAADATAIINAEQGNNSSEKK 420
Db 361 GVAVVVFAMLCILIIILGRYFARHKGTFTHEAKGADDAADATAIINAEQGNNSSEKK 420
QY 421 EYF 423
Db 421 EYF 423

RESULT 5
US-10-898-408-4
; Sequence 4, Application US/10898408
; Publication No. US20050058642A1
; GENERAL INFORMATION:
; APPLICANT: GALIBERT, Laurent J.
; APPLICANT: YAN, Wei
; TITLE OF INVENTION: ANTAGONISTS AND AGONISTS OF LDCAM AND METHODS OF USE
; FILE REFERENCE: 3467-A
; CURRENT APPLICATION NUMBER: US/10/898,408
; CURRENT FILING DATE: 2004-07-23
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; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR FILING DATE: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-778-510-20

Query Match      98.7%; Score 2169; DB 9; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPGLRLRLRLRLRLRLSAALIPITGQGNLFKQVTVIEGEVATISCVNKSDDSVIQLLN 60
Db 19 AAPGLRLRLRLRLRLRLSAALIPITGQGNLFKQVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNQTIYFRDPRPLKDSRFOLLNFSSELKVSLSLNVSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNQTIYFRDPRPLKDSRFOLLNFSSELKVSLSLNVSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 180
Db 139 TVLPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKPOQPMVTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
Db 259 EGDALELTCEAIGKPOQPMVTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 318
QY 301 VGKHSYDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKHSYDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQQNNSEKK 420
Db 379 GVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441

RESULT 9
US-09-778-187B-2
; Sequence 2, Application US/09778187B
; Patent No. US20020168712A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/09/778,187B
; CURRENT FILING DATE: 2001-02-06
; PRIOR FILING DATE: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT

; ORGANISM: Homo sapiens
US-09-778-187B-2

Query Match      98.7%; Score 2169; DB 10; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPGLRLRLRLRLRLRLSAALIPITGQGNLFKQVTVIEGEVATISCVNKSDDSVIQLLN 60
Db 19 AAPGLRLRLRLRLRLRLSAALIPITGQGNLFKQVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNQTIYFRDPRPLKDSRFOLLNFSSELKVSLSLNVSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNQTIYFRDPRPLKDSRFOLLNFSSELKVSLSLNVSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 180
Db 139 TVLPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKPOQPMVTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
Db 259 EGDALELTCEAIGKPOQPMVTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 318
QY 301 VGKHSYDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKHSYDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQQNNSEKK 420
Db 379 GVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441

RESULT 10
US-09-984-130-136
; Sequence 136, Application US/09984130
; Publication No. US20030055231A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P2
; CURRENT APPLICATION NUMBER: US/09/984,130
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 60/243,792
; PRIOR FILING DATE: 2000-10-30
; PRIOR APPLICATION NUMBER: 09/836,353
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-984-130-136

Query Match      98.7%; Score 2169; DB 10; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPGLRLRLRLRLRLRLSAALIPITGQGNLFKQVTVIEGEVATISCVNKSDDSVIQLLN 60
Db 19 AAPGLRLRLRLRLRLRLSAALIPITGQGNLFKQVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNQTIYFRDPRPLKDSRFOLLNFSSELKVSLSLNVSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNQTIYFRDPRPLKDSRFOLLNFSSELKVSLSLNVSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 180
Db 139 TVLPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKPOQPMVTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
Db 259 EGDALELTCEAIGKPOQPMVTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 318
QY 301 VGKHSYDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKHSYDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQQNNSEKK 420
Db 379 GVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441
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Db 19 AAPPLRLRLLLLSAALIPITGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
QY 61 PNRQTIYFRDPRPLKDSRFOLLNPFSSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFOLLNPFSSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVAGEEIEVNCCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 180
Db 139 TVLVPPRNLMIDIQKDTAVAGEEIEVNCCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKPOQVMVTVVRVDDMPQHAVALSGPNLFINNKNKTONGTYRCEASNI 300
Db 259 EGDALELTCEAIGKPOQVMVTVVRVDDMPQHAVALSGPNLFINNKNKTONGTYRCEASNI 318
QY 301 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCIIILGRYFARHKGTPTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
Db 379 GVVAVVVFAMLCIIILGRYFARHKGTPTHEAKGADDAADADTAIINAEAGGQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441

RESULT 11

US-09-836-353A-136
; Sequence 136, Application US/09836353A
; Publication No. US20030129685A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PP489P1
; CURRENT APPLICATION NUMBER: US/09/836,353A
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/138,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-836-353A-136

Query Match 98.7%; Score 2169; DB 10; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPPLRLRLLLLSAALIPITGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 19 AAPPLRLRLLLLSAALIPITGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
QY 61 PNRQTIYFRDPRPLKDSRFOLLNPFSSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFOLLNPFSSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVAGEEIEVNCCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 180
Db 139 TVLVPPRNLMIDIQKDTAVAGEEIEVNCCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240

Db 199 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKPOQVMVTVVRVDDMPQHAVALSGPNLFINNKNKTONGTYRCEASNI 300
Db 259 EGDALELTCEAIGKPOQVMVTVVRVDDMPQHAVALSGPNLFINNKNKTONGTYRCEASNI 318
QY 301 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCIIILGRYFARHKGTPTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
Db 379 GVVAVVVFAMLCIIILGRYFARHKGTPTHEAKGADDAADADTAIINAEAGGQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441

RESULT 12

US-10-302-041-20
; Sequence 20, Application US/10302041
; Publication No. US20030144478A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/10/302,041
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-302-041-20

Query Match 98.7%; Score 2169; DB 14; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPPLRLRLLLLSAALIPITGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 19 AAPPLRLRLLLLSAALIPITGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
QY 61 PNRQTIYFRDPRPLKDSRFOLLNPFSSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFOLLNPFSSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVAGEEIEVNCCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 180
Db 139 TVLVPPRNLMIDIQKDTAVAGEEIEVNCCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKPOQVMVTVVRVDDMPQHAVALSGPNLFINNKNKTONGTYRCEASNI 300
Db 259 EGDALELTCEAIGKPOQVMVTVVRVDDMPQHAVALSGPNLFINNKNKTONGTYRCEASNI 318
QY 301 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCIIILGRYFARHKGTPTHEAKGADDAADADTAIINAEAGGQNNSEKK 420

Db 379 GVAVVVFAMLCIIILGRYFARHKGTYFTHKAGDADAADATAIINAEQGNSEKK 438
Qy 421 EYF 423
Db 439 EYF 441

RESULT 13

US-10-403-107-1
; Sequence 1, Application US/10403107
; Publication No. US20030165974A1
; GENERAL INFORMATION:
; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
; APPLICANT: REEVES, Roger
; APPLICANT: YOSHIMORI, Muranaki
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED DISORDERS
; FILE REFERENCE: JHU1770-1
; CURRENT APPLICATION NUMBER: US/10/403,107
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US/09/930,803
; PRIOR FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-403-107-1

Query Match 98.7%; Score 2169; DB 14; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
Qy 1 AAPGLRLRLLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 60
Db 19 AAPGLRLRLLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 78
Qy 61 PNQTIYFRDPRPLKDSRFQLLNFSSSELKVSLLTNVSIISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNQTIYFRDPRPLKDSRFQLLNFSSSELKVSLLTNVSIISDEGRYFCOLYTDPPQESYTTI 138
Qy 121 TVLVPPNRLMIDIKQTAVEGEIEVNCAMASKPATTIIRWFKGNKELKGKSEVEEWSM 180
Db 139 TVLVPPNRLMIDIKQTAVEGEIEVNCAMASKPATTIIRWFKGNKELKGKSEVEEWSM 198
Qy 181 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQORYLEVQYKPVQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQORYLEVQYKPVQVHIQMTYPLQGLTR 258
Qy 241 EGDAPFLTCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNLTNDGTGRCEASNI 300
Db 259 EGDALFLTCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNLTNDGTGRCEASNI 318
Qy 301 VGKASDYMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKASDYMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
Qy 361 GVAVVVFAMLCIIILGRYFARHKGTYFTHKAGDADAADATAIINAEQGNSEKK 420
Db 379 GVAVVVFAMLCIIILGRYFARHKGTYFTHKAGDADAADATAIINAEQGNSEKK 438
Qy 421 EYF 423
Db 439 EYF 441

RESULT 14

US-10-015-115-111
; Sequence 111, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M

; APPLICANT: Shenoy, Suresh G
; APPLICANT: Sytek, Kimberly A
; APPLICANT: Zerhusen, Bryan D
; APPLICANT: Patturajan, Meera
; APPLICANT: Guo, Xiaojia
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Baha A
; APPLICANT: Shimkets, Richard A
; APPLICANT: taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; CURRENT FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/264,240
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/266,127
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/269,562
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/304,348
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/309,261
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/313,283
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 111
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-015-115-111

Query Match 98.7%; Score 2169; DB 15; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
Qy 1 AAPGLRLRLLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 60
Db 19 AAPGLRLRLLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 78
Qy 61 PNQTIYFRDPRPLKDSRFQLLNFSSSELKVSLLTNVSIISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNQTIYFRDPRPLKDSRFQLLNFSSSELKVSLLTNVSIISDEGRYFCOLYTDPPQESYTTI 138
Qy 121 TVLVPPNRLMIDIKQTAVEGEIEVNCAMASKPATTIIRWFKGNKELKGKSEVEEWSM 180
Db 139 TVLVPPNRLMIDIKQTAVEGEIEVNCAMASKPATTIIRWFKGNKELKGKSEVEEWSM 198
Qy 181 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQORYLEVQYKPVQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQORYLEVQYKPVQVHIQMTYPLQGLTR 258
Qy 241 EGDAPFLTCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNLTNDGTGRCEASNI 300
Db 259 EGDALFLTCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNLTNDGTGRCEASNI 318
Qy 301 VGKASDYMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKASDYMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
Qy 361 GVAVVVFAMLCIIILGRYFARHKGTYFTHKAGDADAADATAIINAEQGNSEKK 420
Db 379 GVAVVVFAMLCIIILGRYFARHKGTYFTHKAGDADAADATAIINAEQGNSEKK 438
Qy 421 EYF 423

Db 439 EYF 441

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RESULT 15
US-10-363-616-262
; Sequence 262, Application US/10363616
; Publication No. US20040044181A1
; GENERAL INFORMATION:
; APPLICANT: Hvsseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 21272-113 (793)
; CURRENT APPLICATION NUMBER: US/10/363,616
; CURRENT FILING DATE: 2003-03-03
; PRIOR APPLICATION NUMBER: 09/654,935
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 490
; SEQ ID NO 262
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-363-616-262

Query Match      98.7%; Score 2169; DB 15; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 AAPGLRLRLLLLSAAALIPDGGONLFTKDVTVIEGEVATISQVNVKSDSDVIQLLN 60
Db 19 AAPGLRLRLLLLSAAALIPDGGONLFTKDVTVIEGEVATISQVNVKSDSDVIQLLN 78
Qy 61 PNQTIYFRDFRPLKDSRFOLLNFSSSELKVSILTNVSISSDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNQTIYFRDFRPLKDSRFOLLNFSSSELKVSILTNVSISSDEGRYFCOLYTDPPQESYTTI 138
Qy 121 TVLVPPRNLMIDIQKTAVGEEIEVNCTAMASKPATTIRWFKGNKELKGKSEVEEWSDM 180
Db 139 TVLVPPRNLMIDIQKTAVGEEIEVNCTAMASKPATTIRWFKGNKELKGKSEVEEWSDM 198
Qy 181 YTVTSQMLKVKHEDDGPVVCQVEHPAVTGNLQRYLEVQYKQPVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHEDDGPVVCQVEHPAVTGNLQRYLEVQYKQPVHIQMTYPLQGLTR 258
Qy 241 EGDALFELTCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNI 300
Db 259 EGDALFELTCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNI 318
Qy 301 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAVIG 360
Db 319 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAVIG 378
Qy 361 GVAVVVVFAMLCLLIILGRYFARHKGTYFTHKAGDADAADATAIINAEQGNNSSEKK 420
Db 379 GVAVVVVFAMLCLLIILGRYFARHKGTYFTHKAGDADAADATAIINAEQGNNSSEKK 438
Qy 421 EYF 423
Db 439 EYF 441
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Search completed: June 28, 2005, 10:12:36
Job time : 109.073 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:43:27 ; Search time 29.341 Seconds
(without alignments)
1076.191 Million cell updates/sec

Title: US-10-622-237-4

Perfect score: 2197

Sequence: 1 AAPPGRLRLRLLLLLLSAAL.....TAINAEGGQNNSEKKEVF 423

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*

3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*

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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2197	100.0	423	4	US-09-778-510-22
2	2169	98.7	442	4	US-09-778-510-20
3	2169	98.7	442	4	US-09-930-803-1
4	2149	97.8	440	4	US-09-866-028-61
5	2149	97.8	440	4	US-09-944-457-61
6	904	41.1	444	2	US-08-659-984A-5
7	904	41.1	444	3	US-08-660-531-5
8	893.5	40.7	421	2	US-08-659-984A-1
9	893.5	40.7	421	3	US-08-660-531-1
10	738.5	33.6	398	4	US-09-778-510-4
11	732.5	33.3	398	4	US-09-778-510-6
12	732.5	33.3	398	4	US-09-907-794A-84
13	732.5	33.3	398	4	US-09-905-125A-84
14	732.5	33.3	398	4	US-09-902-775A-84
15	732.5	33.3	398	4	US-09-906-700-84
16	732.5	33.3	398	4	US-09-903-603A-84
17	732.5	33.3	398	4	US-09-904-920A-84
18	732.5	33.3	398	4	US-09-909-064-84
19	732.5	33.3	398	4	US-09-905-381A-84
20	732.5	33.3	398	4	US-09-906-618-84
21	715.5	32.6	432	4	US-09-778-510-2
22	333	15.2	227	4	US-09-205-258-947
23	252.5	11.5	514	4	US-09-949-016-11380
24	252.5	11.5	517	4	US-09-723-368-4
25	244	11.1	518	4	US-09-919-172-20
26	232.5	10.6	417	4	US-09-949-016-6729
27	232	10.6	819	4	US-09-949-016-11044

28	231.5	10.5	393	1	US-08-429-742-2	Sequence 2, Appli
29	231.5	10.5	456	4	US-09-949-016-7564	Sequence 7564, Ap
30	226.5	10.3	479	4	US-09-723-368-2	Sequence 2, Appli
31	226.5	10.3	479	4	US-09-949-016-6278	Sequence 6278, Ap
32	226.5	10.3	522	4	US-09-949-016-7563	Sequence 7563, Ap
33	222	10.1	837	4	US-09-949-016-6515	Sequence 6515, Ap
34	220.5	10.0	344	4	US-09-700-397-3	Sequence 3, Appli
35	216	9.8	458	4	US-09-435-956A-1	Sequence 1, Appli
36	212	9.6	313	4	US-09-700-397-4	Sequence 4, Appli
37	212	9.6	4391	4	US-10-006-011A-2	Sequence 2, Appli
38	207.5	9.4	646	4	US-09-949-016-6728	Sequence 6728, Ap
39	207.5	9.4	646	4	US-09-653-961-4	Sequence 4, Appli
40	206.5	9.4	308	2	US-08-414-657D-46	Sequence 46, Appli
41	206.5	9.4	325	2	US-08-414-657D-2	Sequence 2, Appli
42	206.5	9.4	325	2	US-08-414-657D-41	Sequence 41, Appli
43	206.5	9.4	325	4	US-09-135-080-2	Sequence 2, Appli
44	206.5	9.4	338	4	US-09-976-594-404	Sequence 404, App
45	206	9.4	388	1	US-08-429-742-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1

US-09-778-510-22

; Sequence 22, Application US/09778510

; Patent No. 6512095

; GENERAL INFORMATION:

; APPLICANT: Baum, Peter

; TITLE OF INVENTION: Molecules Designated B7L1

; FILE REFERENCE: 2844-US

; CURRENT APPLICATION NUMBER: US/09/778, 510

; PRIOR FILING DATE: 2001-02-07

; PRIOR APPLICATION NUMBER: PCT/US99/17906

; PRIOR FILING DATE: 1999-08-05

; PRIOR APPLICATION NUMBER: 60/095,663

; PRIOR FILING DATE: 1998-08-07

; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 22

; LENGTH: 423

; TYPE: PRT

; ORGANISM: Mus musculus

; US-09-778-510-22

Query Match 100.0%; Score 2197; DB 4; Length 423;

Best Local Similarity 100.0%; Pred. No. 5e-187;

Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	AAPPGRLRLRLRLLLLLLSAALIPTG	QNLPTKDVTVIEGEVATIS	COVNKSDSDSVIQLLN	60
Db	1	AAPPGRLRLRLRLLLLLLSAALIPTG	QNLPTKDVTVIEGEVATIS	COVNKSDSDSVIQLLN	60
Qy	61	PNRQTYFRDRLPKDSRFQLNFSSEL	KSVLTNNVSI	SDSGRYFCOLYTDPPQESYTTI	120
Db	61	PNRQTYFRDRLPKDSRFQLNFSSEL	KSVLTNNVSI	SDSGRYFCOLYTDPPQESYTTI	120
Qy	121	TVLVPPRNLMIDLOKDTAVEGEIE	VNCTAMASKPATTIRFWKGNKEL	KGKSEVEEWSDM	180
Db	121	TVLVPPRNLMIDLOKDTAVEGEIE	VNCTAMASKPATTIRFWKGNKEL	KGKSEVEEWSDM	180
Qy	181	YTVTSQMLKVKHEDDGPVVICQV	HPAVTGNLTQRYLEVYKQPQVHI	QWYTPLOGLTR	240
Db	181	YTVTSQMLKVKHEDDGPVVICQV	HPAVTGNLTQRYLEVYKQPQVHI	QWYTPLOGLTR	240
Qy	241	EGDAFELTCEAIGKQPQVMTWVR	VDDEMPQHAVLSGPNLFINN	LKNTDNGTYRCEASNI	300
Db	241	EGDAFELTCEAIGKQPQVMTWVR	VDDEMPQHAVLSGPNLFINN	LKNTDNGTYRCEASNI	300
Qy	301	VGAHSDYMLYVYDPPPTTIPPP	TTTTTTTTTTTTTTTTTTTT	TTTTTTTTTTTTTTTTTTTT	360
Db	301	VGAHSDYMLYVYDPPPTTIPPP	TTTTTTTTTTTTTTTTTTTT	TTTTTTTTTTTTTTTTTTTT	360

QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHAEKAGDADAADATAIINAEAGGQNNSEKK 420
Db 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHAEKAGDADAADATAIINAEAGGQNNSEKK 420
QY 421 EYF 423
Db 421 EYF 423

RESULT 2
US-09-778-510-20
; Sequence 20, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-778-510-20

Query Match 98.7%; Score 2169; DB 4; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.7e-184;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPPGLRLRLLLLLLSAALIPTGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 19 AAPPGLRLRLLLLLLSAALIPTGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
QY 61 PNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSI DSGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSI DSGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRLNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEWSDM 180
Db 139 TVLVPPRLNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEWSDM 198
QY 181 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQTORYLEVOYKPOVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQTORYLEVOYKPOVHIQMTYPLQGLTR 258
QY 241 EGDAPFLTCEAIGKPOPMVWVRVDDMPQHAVLSGPNLFINNLNKTONGTYRCEASNI 300
Db 259 EGDALFLTCEAIGKPOPMVWVRVDDMPQHAVLSGPNLFINNLNKTONGTYRCEASNI 318
QY 301 VGKASDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKASDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHAEKAGDADAADATAIINAEAGGQNNSEKK 420
Db 379 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHAEKAGDADAADATAIINAEAGGQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441

RESULT 3
US-09-930-803-1
; Sequence 1, Application US/09930803
; Patent No. 6596493
; GENERAL INFORMATION:

; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
; APPLICANT: REEVES, Roger
; APPLICANT: YOSHINORI, Muramaki
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED DISORDERS
; FILE REFERENCE: JHUI770-1
; CURRENT APPLICATION NUMBER: US/09/930,803
; CURRENT FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-930-803-1

Query Match 98.7%; Score 2169; DB 4; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.7e-184;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPPGLRLRLLLLLLSAALIPTGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 19 AAPPGLRLRLLLLLLSAALIPTGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
QY 61 PNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSI DSGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSI DSGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRLNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEWSDM 180
Db 139 TVLVPPRLNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEWSDM 198
QY 181 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQTORYLEVOYKPOVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQTORYLEVOYKPOVHIQMTYPLQGLTR 258
QY 241 EGDAPFLTCEAIGKPOPMVWVRVDDMPQHAVLSGPNLFINNLNKTONGTYRCEASNI 300
Db 259 EGDALFLTCEAIGKPOPMVWVRVDDMPQHAVLSGPNLFINNLNKTONGTYRCEASNI 318
QY 301 VGKASDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKASDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHAEKAGDADAADATAIINAEAGGQNNSEKK 420
Db 379 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHAEKAGDADAADATAIINAEAGGQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441

RESULT 4
US-09-866-028-61
; Sequence 61, Application US/09866028
; Patent No. 6642360
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William

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; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. 6734288ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. 6734288ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
```

Query Match 97.8%; Score 2149; DB 4; Length 440;
Best Local Similarity 98.3%; Pred. No. 9.9e-183;
Matches 416; Conservative 1; Mismatches 4; Indels 2; Gaps 1;

QY	1	AAPPG--LRLLLLLSAAALIPGQGNLFKQVTVIEGEVATISCOVNKSDSDSVIQLLN	60
DB	19	AAPPG--LRLLLLLSAAALIPGQGNLFKQVTVIEGEVATISCOVNKSDSDSVIQLLN <td>76</td>	76
QY	61	PNRQTYFRDFRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTI <td>120</td>	120
DB	77	PNRQTYFRDFRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTI <td>136</td>	136
QY	121	TVLVPRNLMDIQKOTAVEGEEIEVNCTAMASKPATTIRFWKGNKELKGKSEVEWSDM <td>180</td>	180
DB	137	TVLVPRNLMDIQKOTAVEGEEIEVNCTAMASKPATTIRFWKGNKELKGKSEVEWSDM <td>196</td>	196
QY	181	YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQRYLEQVQKPVQVHIQMTYPLQGLTR <td>240</td>	240
DB	197	YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQRYLEQVQKPVQVHIQMTYPLQGLTR <td>256</td>	256
QY	241	EGDAFELTCEAIGKQPKVPMVTVVRVDDMPQHAVLSGPNLFINLNKNTDNGTYRCEASNI <td>300</td>	300
DB	257	EGDAFELTCEAIGKQPKVPMVTVVRVDDMPQHAVLSGPNLFINLNKNTDNGTYRCEASNI <td>316</td>	316
QY	301	VGAHSDYMLYVDDPPTTIPPTTT <td>360</td>	360
DB	317	VGAHSDYMLYVDDPPTTIPPTTT <td>376</td>	376
QY	361	GVAVVVFAMLCILLIILGRYFARHKGTYFTHKAGDAADADATTAIINAGGGNNSEKK <td>420</td>	420
DB	377	GVAVVVFAMLCILLIILGRYFARHKGTYFTHKAGDAADADATTAIINAGGGNNSEKK <td>436</td>	436
QY	421	EYF 423 <td></td>	
DB	437	EYF 439 <td></td>	

RESULT 5
US-09-944-457-61
Sequence 61, Application US/09944457
Patent No. 6734288
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavini, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,457
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. 6734288ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. 6734288ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000

STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/660,531
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/480,498
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Healin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002210US
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 444 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-660-531-5

Query Match 41.1%; Score 904; DB 3; Length 444;
Best Local Similarity 44.7%; Pred. No. 5.8e-72;
Matches 194; Conservative 74; Mismatches 136; Indels 30; Gaps 7;

QY 13 LLSAAA---LIPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQIYFR 69
DB 17 LLLQAAAKNKKVSGSQGQFPLTQNTVVEGGTALTCTVDQNDNTSLQNSPAQQTLYFD 76
QY 70 DREPLKDSRFLANFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNL 129
DB 77 DKALRDNRIELVRASWHELISVDSVLSDEGQYTCSLFTMPVKTSKAYLTVLGVPEKP 136
QY 130 MIDIQKDTAVEGEEIEVNCVTAMASKPATITIRWFKGNKELKGKSEVBEWS---DMYTVTSQ 186
DB 137 QISGFSSPWMEGLMQLTCKTSGSKPAADIRWFKNDKEIKDKVYLKEEDANRKTFTVSST 196
QY 187 LMLKVKHEDGVPVICQVEHPAVTGNLQ--TORYLEVOYKQVHIQMTYPLQGLTRGDAP 245
DB 197 LDPVRDRSDGVAVICRVDSHESLNATPQVAMQVLEIHYTPSVKI---IPSTPPQEGQPL 253
QY 246 ELTCEAIGKPPQVMTVVRVDDM--POHVLGSPNLFNNLNKTDNGTYRCEASNIYVK 303
DB 254 ILTCKSGKPLPEPVLMTKDGGLPDRMVVSGRELNLFLNKTNGTYRCEATNTIGQ 313
QY 304 AHSQYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 349
DB 314 SSAREYLVHVDVNTLLPTIIISLTATVTTVAITTSPTTSATTSIRDNPALAGQNG 373
QY 350 TIGAVDHAVTGGVAVVVFVAMLCILILGRYFARHKGTYFTHAKGADDAADATTAIINA 409
DB 374 P-----DHALLIGGIVAVVVFVTLCSIFILGRYLARHKGTYLTNEAKGADAPDADTAIINA 429
QY 410 EGGQNNSEKKEYF 423
DB 430 EGSQVNAEKEYF 443

RESULT 8
US-08-659-984A-1
; Sequence 1, Application US/08659984A

Patent No. 5942400
GENERAL INFORMATION:
APPLICANT: Anderson, John P.
APPLICANT: Sinha, Sukanto
APPLICANT: Jacobson-Croak, Kirsten L.
TITLE OF INVENTION: Assays for Detecting Beta-Secretase
TITLE OF INVENTION: Inhibition
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/659,984A
FILING DATE: 07-JUN-1996
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,152
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Healin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002810US
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 421 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-659-984A-1

Query Match 40.7%; Score 893.5; DB 2; Length 421;
Best Local Similarity 45.0%; Pred. No. 4.6e-71;
Matches 188; Conservative 73; Mismatches 130; Indels 27; Gaps 6;

QY 26 GQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQIYFRDPLKDSRFLNFS 85
DB 10 GGFPLTQNTVVEGGTALTCTVDQNDNTSLQNSPAQQTLYFDDKALRDNRIELVRAS 69
QY 86 SSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQKDTAVEGEEIE 145
DB 70 WHELISVDSVLSDEGQYTCSLFTMPVKTSKAYLTVLGVPEKPQISGFSSPWMEGLMQ 129
QY 146 VNCAMASKPATITIRWFKGNKELKGKSEVBEWS---DMYTVTSQMLKVKHEDGVPVIC 202
DB 130 LTKTSGSKPAADIRWFKNDKEIKDKVYLKEEDANRKTFTVSTLDFRVDSDGVAVIC 189
QY 203 QVEHPAVTGNLQ--TORYLEVOYKQVHIQMTYPLQGLTRGDAPFELTCEAIGKPPQVMT 261
DB 190 RVDSHESLNATPQVAMQVLEIHYTPSVKI---IPSTPPQEGQPLIITCKSGKPLPEPVL 246
QY 262 WVRVDDM--POHVLGSPNLFNNLNKTDNGTYRCEASNIYKAHSDYMLVYVDPPTTI 319
DB 247 WTKDGGLPDRMVVSGRELNLFLNKTNGTYRCEATNTIGQSSAREYLVHVDVNTL 306
QY 320 PPPTT 365
DB 307 LPTTIIPSLTATVTTVAITTSPTTSATTSIRDNPALAGQNGP---DHALLIGGIVAV 362
QY 366 VVPMCLLILILGRYFARHKGTYFTHAKGADDAADATTAIINAEGQNNSEKKEYF 423

Db 363 VWFVTLCSIFLLGRYLARHKGTYLTNEAKGAEDAPDADTAIINAEGSQVNAEBKKEYP 420

RESULT 9

US-08-660-531-1

; Sequence 1, Application US/08660531

; Patent No. 6221645

; GENERAL INFORMATION:

; APPLICANT: Chrysler, Susanna M.S.

; APPLICANT: Sinha, Sukanto

; APPLICANT: Keim, Pamela S.

; APPLICANT: Anderson, John P.

; TITLE OF INVENTION: Beta-Secretase

; NUMBER OF SEQUENCES: 21

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Townsend and Townsend and Crew LLP

; STREET: Two Embarcadero Ctr., 8th Floor

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94111-3834

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/660,531

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/480,498

; FILING DATE: 07-JUN-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Heslin, James M.

; REGISTRATION NUMBER: 29,541

; REFERENCE/DOCKET NUMBER: 15270-002210US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-326-2400

; TELEFAX: 415-326-2422

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 421 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-660-531-1

Query Match 40.7%; Score 893.5; DB 3; Length 421;

Best Local Similarity 45.0%; Pred. No. 4.6e-71;

Matches 188; Conservative 73; Mismatches 130; Indels 27; Gaps 6;

QY 26 GQNLTKDVTVEGEVATISQVKNKSDSDSVQLLNPNRQTYPRDPRPKDSRFLNFS 85

Db 10 GQPLQNTVVEGGTALTTCRDQNDNTSLQNSPAQQTLYFDKKAIRDNRNIELVRAS 69

QY 86 SSELKSLTNVNSIDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQDRTAVEGEEIE 145

Db 70 WHELSISVSDSLSDSGQYTCSLTFPVKTSKAYLTVLGVPEKPSGFSFSPVMEGLMQ 129

QY 146 VNTAMASKPATIRWFKGNKELKSGSEVEWS---DMYTVTSQMLKVHKEDDGVFVIC 202

Db 130 LTCKTSGSKPAADIRWFKGNKEIKDVYKLEEDANRKTFTVSTLDFRVDSDGVAVIC 189

QY 203 QVEHPAVTGNLQ--TQRYLEYVQYKPVHIQMTYPLQGLTRGDAFELTCEAIGKPPQVMVT 261

Db 190 RVDHESINATPQVAMQVLEIHTYTPSVKI---IPSTFPQSQPLILTCESKGPPEPVL 246

QY 262 WVRVDDEM--PQHAVLSGPNLFINNKNKTNDGTYRCEASNIVGKAHSDYMLYVDPPTTI 319

Db 247 WTKDGGELPDRMVMVSGRELNLFNKNKTNDGTYRCEANTTICQSSAAYVLIYVHVPNTL 306

QY 320 PPPTTTTTTTTTTTTTTTTTTTTT-----DSRAGBEGTICAVDHAIVGGVAV 365

Db 307 LPTTIIPSLTTATVTTTVAITTSPTTSATSSIRDPNALAGQNGP---DHALIGGIVAV 362

QY 366 VVFAMCLLIILGRYPARHKGTYFTHKAGDAADADTAIINAEGQNNSEBKKEYP 423

Db 363 VWFVTLCSIFLLGRYLARHKGTYLTNEAKGAEDAPDADTAIINAEGSQVNAEBKKEYP 420

RESULT 10

US-09-778-510-4

; Sequence 4, Application US/09778510

; Patent No. 6512095

; GENERAL INFORMATION:

; APPLICANT: Baum, Peter

; TITLE OF INVENTION: Molecules Designated B7L1

; FILE REFERENCE: 2844-US

; CURRENT APPLICATION NUMBER: US/09/778,510

; CURRENT FILING DATE: 2001-02-07

; PRIOR APPLICATION NUMBER: PCT/US99/17906

; PRIOR FILING DATE: 1999-08-05

; PRIOR APPLICATION NUMBER: 60/095,663

; PRIOR FILING DATE: 1998-08-07

; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 4

; LENGTH: 398

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-778-510-4

Query Match 33.6%; Score 738.5; DB 4; Length 398;

Best Local Similarity 38.8%; Pred. No. 2.6e-57;

Matches 165; Conservative 73; Mismatches 136; Indels 51; Gaps 9;

QY 12 LLLSAAALIPG-----DQNLFTKDVTVIEGEVATISQVKNKSDSDSVQLLNPNRQTI 66

Db 11 LLLLLACSWAPGAGNLSQDSDSQPWTSDETVWAGTVVLKQVKDHDSDSLQWSNPAQQL 70

QY 67 YFRDPRPLKDSRFOLLNFSSELKSLTNVNSIDEGRYFCQLYTDPQESYTTITVLVVP 126

Db 71 YFGEKRALRDNRIQLVSTPHELSSISNVALADEGEYTCSTFTMPVTRAKSLVTVLGI 130

QY 127 RNLMIDIQDRTAVEGEEIEVNCTAMASKPATIRWFKGNKELK--KSEVEEWS--MYTV 183

Db 131 QKPIITGYKSSLREKETATLNCQSSGSKPAQAQLTWKKGDELHGDQTRIQEDPNGKTFV 190

QY 184 TSQMLKVHKEDDGVFVICQVEHPAVTG--NLQRYLEYVQYKPVHIQMTYPLQGLTRG 242

Db 191 SSSVSQVTRDDEGANIVGSVNHESLKGAIRSTQRILEVLYTPTAMIR---PEPAHPREG 247

QY 243 DAFELTCEAIGKPPQVMVTWVRVDDEM---QHAVLSGPNLFINNKNKTNDGTYRCEAS 298

Db 248 QKLLHCEGRGNPVPOQYVYVWKEGSEPLKMTQESALIFP-----FLNKSDSGTYGCTAT 302

QY 299 NIVGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITITDSRAGEGTIGADV 358

Db 303 SNMGSTAYFTLNVDPS---PVPSSSTY-----PVPSSSTY-----HAI 332

QY 359 IGSWAVVVFAMCLLIILGRYPARHKGTYFTHKAGDAADADTAIINAEGQNNSE 418

Db 333 IGGIVAFIVFLILLILLIFLGHYLIRHKGYLTNEAKGSDPADPADTAIINAEGQSGGD 392

QY 419 KKEYF 423

Db 393 KKEYF 397

RESULT 11

US-09-778-510-6

; Sequence 6, Application US/09778510

; Patent No. 6512095

; GENERAL INFORMATION:

QY 182 TVTSQMLKVKHKEDDGVPIQVEHPAVTG-NLQORYLEVQYKQVHQMITYPLOGLTR 240
Db 189 TVSSSVTFQVTRDDGASIVCSNVHESLKGADRSTSQRIEVLVYPTAMIRPDPP---HPR 245
QY 241 EGDAFELTCEAIGKPOQVWTVVRVDEMPQHAVLSGPNLFINNLTNDGTVCCEASNI 300
Db 246 EGQKLLHCEGRGNPVPQOYLWEK-EGSVPLKMTQESALIFPFLNKSDSGTGCTATSN 304
QY 301 VGKASDYMLYVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAIVG 360
Db 305 MGSYKAYITLVNDPS---PVPSSSTY-----HAIIG 334
QY 361 GVAVVVFAMLCCLLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEQGNSEKK 420
Db 335 GIVAFIVFLLIIMLIFLGHYLRHKGTYLTHEAKGSDADPADADTAIINAEQGGSGDDKK 394
QY 421 EYF 423
Db 395 EYF 397

RESULT 13

US-09-905-125A-84
; Sequence 84, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: 10466-14
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-125A-84

Query Match 33.3%; Score 732.5; DB 4; Length 398;
Best Local Similarity 38.3%; Pred. No. 9e-57;
Matches 162; Conservative 74; Mismatches 144; Indels 43; Gaps 8;

QY 10 LLLLLLAAALIPGT-----DQNLFTKDVTVIEGVATISQVKNKSDSVTLQNPQRQ 64
Db 9 LLLLLLFACCWAPGANLSQDSDSQPMTSDETVVAGTVVLKQVKDHEDSSLQWSNPAQQ 68
QY 65 TTYFRDFRPLKDSRFOLLNFSSELKSVLTNVSISDEGRYFCOLYTDPPQESVTTITVLV 124
Db 69 TTYFGEKRALNRRIQLVTSSTHELSISISNVALADEGYTCSIFTPVTRTAKSLVTVLG 128
QY 125 PPRNLMDIQDQTAVEGEEIEVNTAMASKPATTIRWFKGNELKKG-SEVEEWS--MY 181
Db 129 IFQKPIITGVKSSLRKEDTATLNCQSSGSKPAARLTWRKGDQELHCEPTRIQEDPNGKTF 188
QY 182 TVTSQMLKVKHKEDDGVPIQVEHPAVTG-NLQORYLEVQYKQVHQMITYPLOGLTR 240
Db 189 TVSSSVTFQVTRDDGASIVCSNVHESLKGADRSTSQRIEVLVYPTAMIRPDPP---HPR 245
QY 241 EGDAFELTCEAIGKPOQVWTVVRVDEMPQHAVLSGPNLFINNLTNDGTVCCEASNI 300
Db 246 EGQKLLHCEGRGNPVPQOYLWEK-EGSVPLKMTQESALIFPFLNKSDSGTGCTATSN 304
QY 301 VGKASDYMLYVYVDPPTTIPPTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAIVG 360
Db 305 MGSYKAYITLVNDPS---PVPSSSTY-----HAIIG 334
QY 361 GVAVVVFAMLCCLLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEQGNSEKK 420
Db 335 GIVAFIVFLLIIMLIFLGHYLRHKGTYLTHEAKGSDADPADADTAIINAEQGGSGDDKK 394
QY 421 EYF 423
Db 395 EYF 397

RESULT 14
US-09-902-775A-84
; Sequence 84, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen

```

; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-775A-84

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Best Local Similarity 38.3%; Pred. No. 9e-57;
Matches 162; Conservative 74; Mismatches 144; Indels 43; Gaps 8;

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Db 9 LLLLLLFACCWAPGGANISQDDSQWTSDETVAGTGVLLKQVQKDHEDSLQWNSPAQQ 68
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 65 TIYFRDFRLPKDRFQLLNFFSSSELKSLVTNVSISDEGRYFCQLYTPPQESYTTITVLV 124

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; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
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; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-700-84

Query Match      33.3%; Score 732.5; DB 4; Length 398;
Best Local Similarity 38.3%; Pred. No. 9e-57;
Matches 162; Conservative 74; Mismatches 144; Indels 43; Gaps 8;

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QY 65 TIYFRDFRPLKDSRFOLLNPFSSSELKVLSTNVISIDEGRYFCOLYTPDQESYTTITVLV 124
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Db 69 TLYFGEKRALDRRIQLVTSHPHELSISISNVALADEGYTCISFTMPVRTAKSLVTVLG 128

QY 125 PPRNLMIDIOKDTAVEGEETEVCNCTAMASKPATTTIRWFGKNELKKG-SEVEEWS--MY 181
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QY 182 TVTSQMLKVKHEDDGVFVICQVEHPAVTG-NLQORYLEVQYKPVQVHIQMTYPLQGLTR 240
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QY 241 EGDAFELTCEAIGKPOPVMVTVRVDDDEMPQHAVLSGPNLFINNANKTNGTYRCEASNI 300
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QY 301 VGRAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGTIGAVDHAVIG 360
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Db 335 GIVAFIVFLLIMLIIFLGHVLIIRHKGYLTHEAKGSDADPADTAINAEQGQSGGDDKK 394

QY 421 EYF 423
Db 395 EYF 397
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Search completed: June 28, 2005, 09:55:53
Job time : 31.341 secs

GenCore version 5.1.6

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OM protein - protein search, using sw model

Run on: June 28, 2005, 10:07:28 ; Search time 26.5711 Seconds

(without alignments)
1600.529 Million cell updates/sec

Title: US-10-622-237-2

Perfect score: 442

Sequence: 1 MASVLPSSGSCAAAAA.....AIIAEGGQNNSEKEYFI 442

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 283416 seqs, 96216763 residues

Word size : 0

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database :

1: PIR.79.*

2: PIR1.*

3: PIR3.*

4: PIR4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15	3.4	108	2 T26880	hypothetical prote
2	15	3.4	327	2 S20074	promastigote surfa
3	14	3.2	304	2 T15922	hypothetical prote
4	14	3.2	512	2 T02498	probable WRKY-type
5	14	3.2	516	2 S19252	1-aminocyclopropan
6	14	3.2	518	2 S31442	rep protein - slim
7	14	3.2	889	2 A35679	mucin-like glycopr
8	14	3.2	1832	2 T31113	alkaline phosphata
9	13	2.9	67	2 B56888	salivary glue prot
10	13	2.9	217	2 S01358	hypothetical prote
11	13	2.9	245	2 T26868	merozoite surface
12	13	2.9	274	2 A45632	merozoite surface
13	13	2.9	278	2 S39310	merozoite surface
14	13	2.9	284	2 T22023	hypothetical prote
15	13	2.9	341	2 T32949	hypothetical prote
16	13	2.9	517	2 T20658	probable zinc meta
17	13	2.9	519	2 T23739	hypothetical prote
18	13	2.9	551	2 S18408	alkaline phosphata
19	13	2.9	560	2 T32661	hypothetical prote
20	13	2.9	651	2 T21175	hypothetical prote
21	13	2.9	781	2 S51592	XyNB precursor - R
22	13	2.9	831	2 T08611	hypothetical prote
23	13	2.9	975	2 T08606	protein phosphatas
24	13	2.9	1023	2 S12519	glutactin - fruit
25	13	2.9	1076	2 JC2217	major surface glyco
26	13	2.9	1083	2 JC2300	cell surface glyco
27	13	2.9	1099	2 T18257	phospholipase C -
28	13	2.9	1282	2 JE0120	glycoprotein A - m
29	13	2.9	1402	2 T17456	cell surface prote

30	13	2.9	1635	2 T14075	chitinase (EC 3.2.
31	13	2.9	1671	2 S71628	sensory transducti
32	13	2.9	1737	2 A59235	unconventional myo
33	13	2.9	1858	2 T18273	1-phosphatidylinos
34	12	2.7	183	2 S05358	hypothetical prote
35	12	2.7	342	2 T29557	hypothetical prote
36	12	2.7	458	2 T31631	hypothetical prote
37	12	2.7	477	2 A54843	nemo, form 1 - fru
38	12	2.7	524	2 S33640	homeotic protein s
39	12	2.7	530	2 T32812	hypothetical prote
40	12	2.7	559	2 B36307	alkaline phosphata
41	12	2.7	680	2 T19939	hypothetical prote
42	12	2.7	681	2 T23454	hypothetical prote
43	12	2.7	698	2 A54796	regulatory protein
44	12	2.7	802	2 A36910	xylanase, beta(1,3
45	12	2.7	825	2 T29634	hypothetical prote
46	12	2.7	1002	2 T30546	major surface glyco
47	12	2.7	3712	2 S18253	laminin alpha-1 ch
48	12	2.7	4377	2 A55575	ankyrin 3, long sp
49	11	2.5	139	2 D86417	probable auxin-ind
50	11	2.5	164	2 T26561	hypothetical prote
51	11	2.5	166	2 C90029	hypothetical prote
52	11	2.5	208	2 T46896	merozoite surface
53	11	2.5	234	2 T26560	hypothetical prote
54	11	2.5	263	2 S01360	salivary glue prot
55	11	2.5	373	2 T29596	hypothetical prote
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59	11	2.5	525	2 A35596	nuclear pore glyco
60	11	2.5	526	2 A56573	nuclear pore compl
61	11	2.5	558	2 A98199	translocated intim
62	11	2.5	558	2 E86045	probable transloca
63	11	2.5	569	2 S47277	gp88 protein - mur
64	11	2.5	649	2 T24505	hypothetical prote
65	11	2.5	662	2 A45155	mucin FIM-C.1 - Af
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69	11	2.5	977	2 T16232	1-phosphatidylinos
70	11	2.5	1093	2 T18275	hypothetical prote
71	11	2.5	1271	2 D64237	hypothetical prote
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73	10	2.3	219	2 T51382	achate-scute homo
74	10	2.3	232	2 A60095	larval glue protei
75	10	2.3	307	1 GSFF3	salivary glue prot
76	10	2.3	388	2 T16861	hypothetical prote
77	10	2.3	390	2 T49619	hypothetical prote
78	10	2.3	393	2 B86189	protein T25N20.9 [
79	10	2.3	395	2 T45599	hypothetical prote
80	10	2.3	435	2 T25350	hypothetical prote
81	10	2.3	468	2 A55476	protein kinase (EC
82	10	2.3	572	2 T16865	hypothetical prote
83	10	2.3	577	2 G89430	protein K0282.3 li
84	10	2.3	645	2 T29818	hypothetical prote
85	10	2.3	648	1 JQ1150	protein kinase (EC
86	10	2.3	712	1 I46031	gelatinase B (EC 3
87	10	2.3	876	2 T49801	hypothetical prote
88	10	2.3	947	2 T08605	hypothetical prote
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90	10	2.3	1017	2 T30542	major surface glyco
91	10	2.3	1022	2 T30542	major surface glyco
92	10	2.3	1030	2 T18374	B-cell receptor pr
93	10	2.3	1047	2 A55617	masquerade precurs
94	10	2.3	1089	2 T14576	nosa protein - sli
95	10	2.3	1137	2 A33507	hypothetical prote
96	10	2.3	1390	2 T14004	trfA protein - sli
97	10	2.3	1513	2 T23681	hypothetical prote
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99	9	2.0	109	1 R6UTP1	acidic ribosomal p
100	9	2.0	124	2 T48833	hypothetical prote
101	9	2.0	136	2 A56062	Alu RNA-binding pr
102	9	2.0	136	2 S34196	signal recognition

103 9 2.0 165 2 B87702 ribosomal protein
104 9 2.0 167 2 T33602 hypothetical prote
105 9 2.0 172 2 S35568 sex-determining pr
106 9 2.0 184 2 S77928 exoskeletal protei
107 9 2.0 187 2 T49491 hypothetical prote
108 9 2.0 195 2 T19617 hypothetical prote
109 9 2.0 202 2 F86755 prophage pi2 prote
110 9 2.0 209 2 J4244 heat-shock 27K pro
111 9 2.0 213 2 T23865 hypothetical prote
112 9 2.0 327 2 T49514 hypothetical prote
113 9 2.0 371 2 S20075 promastigote surfa
114 9 2.0 372 2 T41193 L-ascorbate peroxi
115 9 2.0 384 2 A41146 syndecan-3 - chick
116 9 2.0 394 2 T20633 hypothetical prote
117 9 2.0 422 2 T49513 gastric mucin rela
118 9 2.0 427 2 A23372 female-specific do
119 9 2.0 444 2 T09474 forward protein F
120 9 2.0 457 2 I55976 dihydrolipamide S
121 9 2.0 479 2 T03293 probable phosphodi
122 9 2.0 492 2 A41907 methyl-CpG-binding
123 9 2.0 500 1 BPF zip protein precur
124 9 2.0 503 2 B87101 probable membrane
125 9 2.0 521 2 T49355 related to protein
126 9 2.0 549 2 B32372 male-specific doub
127 9 2.0 555 2 S21766 dihydrolipamide S
128 9 2.0 594 2 D84859 probable MAP kinas
129 9 2.0 708 2 T29669 hypothetical prote
130 9 2.0 712 2 S18325 guanylate cyclase,
131 9 2.0 761 2 T51912 hypothetical prote
132 9 2.0 788 2 S05661 muscarinic acetyl
133 9 2.0 1014 2 T18759 hypothetical prote
134 9 2.0 1272 2 T30248 fragile X mental r
135 9 2.0 1335 2 T18289 racGAP protein - s
136 9 2.0 1408 2 S16148 gene serrate prote
137 9 2.0 1510 2 T33100 hypothetical prote
138 9 2.0 1570 2 T18272 1-phosphatidylinos
139 9 2.0 1733 1 B45344 probable nuclear a
140 9 2.0 1920 2 T13893 gene hindsight pro
141 9 2.0 3672 2 T23433 hypothetical prote
142 9 2.0 3704 2 T37316 probable laminin a
143 9 2.0 3828 2 T13857 trithorax protein
144 8 1.8 29 2 I52628 low affinity nerve
145 8 1.8 33 2 A05162 antiferese protein u
146 8 1.8 40 2 S58853 homeotic protein u
147 8 1.8 45 2 P00593 tyrosine 3-monooxy
148 8 1.8 45 2 P00592 tyrosine 3-monooxy
149 8 1.8 45 2 P00591 tyrosine 3-monooxy
150 8 1.8 65 2 S19568 parsin, ovary-matu

ALIGNMENTS

RESULT 1
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C:Species: Caenorhabditis elegans
C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C:Accession: T26880
R:Ainscough, R.
submitted to the EMBL Data Library, October 1998
A:Reference number: Z20279
A:Accession: T26880
A>Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A:Residues: 1-108 <WIL>
A:Cross-references: UNIPROT:Q9XWNO; EMBL:AL032637; PIDN:CAA21621.1; CESP:Y43F8C.9
A:Experimental source: clone Y43F8C
C:Genetics:
A:Gene: CESP:Y43F8C.9
A:Introns: 40/3

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DB 48 PPTTTTTTTTTTTTTT 62
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S20074
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C:Species: Leishmania major
C>Date: 13-Jan-1995 #sequence_revision 06-Feb-1998 #text_change 09-Jul-2004
C:Accession: S20074; D41710
R:Murray, P.J.; Spithill, T.W.
J. Biol. Chem. 266, 24477-24484, 1991
A:Title: Variants of a Leishmania surface antigen derived from a multigenic family.
A:Reference number: A41710; MUID:92105105; PMID:1761547
A:Accession: S20074
A:Molecule type: mRNA
A:Residues: 1-327 <MUR>
A:Cross-references: UNIPROT:Q25334; EMBL:X57135; MID:g9582; PID:g9583
C:Keywords: Blocked carboxyl end; Glycoprotein; lipoprotein; phosphatidylinositol linkage
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F;299/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asp) (in mature form)
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DB 183 PPTTTTTTTTTTTTTT 197
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C:Species: Caenorhabditis elegans
C>Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C:Accession: T15922
R:Chisoe, S.
submitted to the EMBL Data Library, July 1995
A:Description: The sequence of C. elegans cosmid EEED8.
A:Reference number: Z18428
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A:Residues: 1-304 <CHI>
A:Cross-references: UNIPROT:Q09300; EMBL:U23484; MID:g733597; PID:g733608; PIDN:AAC46771
A:Experimental source: strain Bristol N2
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A:Gene: CESP:EEED8.11
A:Introns: 27/1; 242/2
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DB 67 PPTTTTTTTTTTTTTT 80
RESULT 4
T02498
probable WRKY-type DNA binding protein At2g38470 [imported] - Arabidopsis thaliana
N:Alternate names: hypothetical protein T19C21.4
C:Species: Arabidopsis thaliana (mouse-ear cress)
C>Date: 05-Mar-1999 #sequence_revision 05-Mar-1999 #text_change 09-Jul-2004
C:Accession: T02498; D84805
R:Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Croasby, M.L.; Brandon, R.C.; Sykes, S.M.; Kaul,

submitted to the EMBL Data Library, August 1998
A;Description: Arabidopsis thaliana chromosome II BAC T19C21 genomic sequence.
A;Reference number: Z14676
A;Accession: T02498
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A;Cross-references: UNIPROT:Q858P5; EMBL:AC004583; NID:g3395421; PID:g3395425
A;Experimental source: cultivar Columbia
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.;
euss, D.; Nierman, W.C.; White, O.; Eissen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
A;Accession: D84805
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-512 <STO>
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A;Gene: At2g38470; T19C21.4
A;Map position: 2
A;Introns: 74/3; 143/3; 321/2; 375/2

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Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 122 PTTTTTTTTTTTTT 135

RESULT 5
S19252
1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) - clove pink
C;Species: Dianthus caryophyllus (clove pink)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
C;Accession: S19252
R;Park, K.Y.; Drory, A.; Woodson, W.R.
Plant Mol. Biol. 18, 377-386, 1992
A;Title: Molecular cloning of an 1-aminocyclopropane-1-carboxylate synthase from senesci
A;Reference number: S19252; MUID:92119258; PMID:1731995
A;Accession: S19252
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-516 <PAR>
A;Cross-references: UNIPROT:P27486; EMBL:M66619
C;Superfamily: 1-aminocyclopropane-1-carboxylate synthase
C;Keywords: carbon-sulfur lyase; ethylene biosynthesis; phosphoprotein; pyridoxal phosph
F;276/Binding site: pyridoxal phosphate (Lys) (covalent) #status Predicted

Query Match 3.2%; Score 14; DB 2; Length 516;
Best Local Similarity 100.0%; Pred. No. 0.00011;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 354
DB 457 TTTTTTTTTTTTTT 470

RESULT 6
S31442
1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) - clove pink
C;Species: Dianthus caryophyllus (clove pink)
C;Date: 02-Dec-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: S31442
R;Michael, M.Z.
submitted to the EMBL Data Library, December 1992
A;Description: Isolation of petal senescence-associated cDNA clones encoding 1-aminocycl
A;Reference number: S31442
A;Accession: S31442

A;Molecule type: mRNA
A;Residues: 1-518 <MIC>
A;Cross-references: UNIPROT:Q43753; EMBL:Z18952; NID:g18319; PIDN:CAA79477.1; PID:g18320
C;Superfamily: 1-aminocyclopropane-1-carboxylate synthase
C;Keywords: carbon-sulfur lyase; ethylene biosynthesis; phosphoprotein; pyridoxal phosph
F;278/Binding site: pyridoxal phosphate (Lys) (covalent) #status Predicted

Query Match 3.2%; Score 14; DB 2; Length 518;
Best Local Similarity 100.0%; Pred. No. 0.00011;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 354
DB 459 TTTTTTTTTTTTTT 472

RESULT 7
A35679
rep protein - slime mold (Dictyostelium discoideum) plasmid Ddp2
C;Species: Dictyostelium discoideum
C;Date: 28-Sep-1990 #sequence_revision 28-Sep-1990 #text_change 09-Jul-2004
C;Accession: A35679; S14202; S15811
R;Leiting, B.; Lindner, I.J.; Noegel, A.A.
Mol. Cell. Biol. 10, 3727-3736, 1990
A;Title: The extrachromosomal replication of Dictyostelium plasmid Ddp2 requires a cis-a
A;Reference number: A35679; MUID:90287184; PMID:2192261
A;Accession: A35679
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-889 <LEI>
A;Cross-references: UNIPROT:Q23895; GB:M55298; NID:g167727; PIDN:AAA33191.1; PID:g167728
R;Slade, M.B.; Chang, A.C.M.; Williams, K.L.
Plasmid 24, 195-207, 1990
A;Title: The sequence and organization of Ddp2, a high-copy-number nuclear plasmid of D
A;Reference number: S14202; MUID:91172902; PMID:2077544
A;Accession: S14202
A;Molecule type: DNA
A;Residues: 1-141, 'I', 143-780, 'E', 782-885, 'GY' <SLA1>
R;Slade, M.B.
submitted to the EMBL Data Library, January 1990
A;Reference number: S15811
A;Accession: S15811
A;Molecule type: DNA
A;Residues: 1-141, 'I', 143-353, 'A', 355-780, 'E', 782-885, 'GY' <SLA2>
A;Cross-references: EMBL:X51478; NID:g7307; PIDN:CAA35843.1; PID:g7308
C;Genetics:
A;Gene: rep
A;Genome: plasmid

Query Match 3.2%; Score 14; DB 2; Length 889;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 250 PTTTTTTTTTTTTT 263

RESULT 8
T31113
mucin-like glycoprotein 900 - Cryptosporidium parvum
C;Species: Cryptosporidium parvum
C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 09-Jul-2004
C;Accession: T31113
R;Barnes, D.A.; Bonnin, A.; Huang, J.X.; Gousset, L.; Wu, J.; Gut, J.; Doyle, P.; Dubren
Mol. Biochem. Parasitol. 96, 93-110, 1998
A;Title: A novel multi-domain mucin-like glycoprotein of Cryptosporidium parvum mediat
A;Reference number: Z20989; MUID:99066935; PMID:9851610
A;Accession: T31113
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1832 <BAR>

A;Cross-references: UNIPROT:O96503; EMBL:AF068065; NID:G4063041; PID:G4063042; PIDN:AA09

Query Match 3.2%; Score 14; DB 2; Length 1832;
Best Local Similarity 100.0%; Pred. No. 0.00031; Mismatches 0; Indels 0; Gaps 0;
Matches 14; Conservative 0

QY 340 PTTTTTTTTTTT 353
|||||
Db 373 PTTTTTTTTTTT 386

RESULT 9
B56888
alkaline phosphatase (EC 3.1.3.1), intestinal type II - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 05-Jan-1996 #sequence_revision 05-Jan-1996 #text_change 16-Aug-2004
C;Accession: B56888
R;Engle, M.J.; Alpers, D.H.
Clin. Chem. 38, 2505-2509, 1992
A;Title: The two mRNAs encoding rat intestinal alkaline phosphatase represent two distinct
A;Reference number: A56888; MUID:93092310; PMID:1458592
A;Accession: B56888
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-67 <ENG>
A;Experimental source: duodenal mucosa
A;Note: sequence extracted from NCBI backbone (NCBIN:121249, NCBIP:121252)
C;Superfamily: Alkaline phosphatase
C;Keywords: intestine; membrane protein; phosphoric monoester hydrolase

Query Match 2.9%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00016; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0

QY 341 TTTTTTTTTTTT 353
|||||
Db 27 TTTTTTTTTTTT 39

RESULT 10
S01358
salivary glue protein sgs-3 precursor - fruit fly (Drosophila simulans)
C;Species: Drosophila simulans
C;Date: 30-Sep-1989 #sequence_revision 30-Sep-1989 #text_change 09-Jul-2004
C;Accession: S01358; A23988
R;Martin, C.H.; Mayeda, C.A.; Meyerowitz, E.M.
J. Mol. Biol. 201, 273-287, 1988
A;Title: Evolution and expression of the Sgs-3 glue gene of Drosophila.
A;Reference number: S01358; MUID:88332966; PMID:3138416
A;Accession: S01358
A;Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-217 <NAR>
A;Cross-references: UNIPROT:P13729
C;Genetics:
A;Gene: Sgs-3
A;Cross-references: FlyBase:FBgn0012853
C;Superfamily: salivary glue protein
F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-217/Product: salivary glue protein sgs-3 #status predicted <MAT>

Query Match 2.9%; Score 13; DB 2; Length 217;
Best Local Similarity 100.0%; Pred. No. 0.00044; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0

QY 341 TTTTTTTTTTTT 353
|||||
Db 49 TTTTTTTTTTTT 61

RESULT 11
T26868
hypothetical protein Y43F8C.5 - Caenorhabditis elegans

A;Cross-references: UNIPROT:O9XWF2; EMBL:AL032637; PIDN:CAA21609.1; CESP:Y43F8C.5
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T26868
R;Ainscough, R.
submitted to the EMBL Data Library, October 1998
A;Reference number: Z20279
A;Accession: T26868
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-245 <WIL>
A;Cross-references: UNIPROT:O9XWF2; EMBL:AL032637; PIDN:CAA21609.1; CESP:Y43F8C.5
A;Experimental source: clone Y43F8C
C;Genetics:
A;Gene: CESP:Y43F8C.5
A;Introns: 69/3; 163/2

Query Match 2.9%; Score 13; DB 2; Length 245;
Best Local Similarity 100.0%; Pred. No. 0.00048; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0

QY 339 PTTTTTTTTTTT 351
|||||
Db 197 PTTTTTTTTTTT 209

RESULT 12
A45632
merozoite surface antigen 2 - malaria parasite (Plasmodium falciparum)
C;Species: Plasmodium falciparum
C;Date: 22-Apr-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A45632
R;Marshall, V.M.; Coppel, R.L.; Anders, R.F.; Kemp, D.J.
Mol. Biochem. Parasitol. 50, 181-184, 1992
A;Title: Two novel alleles within subfamilies of the merozoite surface antigen 2 (MSA-2)
A;Reference number: A45632; MUID:92178286; PMID:1542312
A;Contents: KF1316
A;Accession: A45632
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-274 <NAR>
A;Cross-references: UNIPROT:P50497; GB:M73810; NID:G160484; PID:G160485
A;Note: sequence extracted from NCBI backbone (NCBIN:85252, NCBIP:85257)
C;Superfamily: Epstein-Barr virus nuclear antigen
C;Keywords: surface antigen

Query Match 2.9%; Score 13; DB 2; Length 274;
Best Local Similarity 100.0%; Pred. No. 0.00053; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0

QY 341 TTTTTTTTTTTT 353
|||||
Db 97 TTTTTTTTTTTT 109

RESULT 13
S39310
merozoite surface antigen - malaria parasite (Plasmodium falciparum)
C;Species: Plasmodium falciparum
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: S39310
R;Ramasmay, R.; Ranasinghe, C.
submitted to the EMBL Data Library, November 1993
A;Description: Cycle ds DNA sequencing of a malaria parasite protein from infected blood
A;Reference number: S39310
A;Accession: S39310
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-278 <RAM>
A;Cross-references: UNIPROT:Q25862; EMBL:X76087; NID:G434996; PID:G836639
C;Superfamily: Epstein-Barr virus nuclear antigen
C;Keywords: surface antigen

Query Match 2.9%; Score 13; DB 2; Length 278;
Best Local Similarity 100.0%; Pred. No. 0.00053; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0

Best Local Similarity 100.0%; Pred. No. 0.00054; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 101 TTTT TTTT TTTT TTTT 113

RESULT 14
T22023
hypothetical protein F40E10.5 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T22023
R;Smye, R.
submitted to the EMBL Data Library, February 1996
A;Reference number: Z19503
A;Accession: T22023
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-284 <WIL>
A;Cross-references: UNIPROT:Q20202; EMBL:Z69792; PIDN:CAA93666.1; GSPDB:GN00028; CESP:F4
A;Experimental source: clone F40E10
C;Genetics:
A;Gene: CESP:F40E10.5
A;Map position: X
A;Introns: 34/3; 76/2; 141/3; 183/3; 240/3

Query Match 2.9%; Score 13; DB 2; Length 284;
Best Local Similarity 100.0%; Pred. No. 0.00055; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 214 TTTT TTTT TTTT TTTT 226

RESULT 15
T32949
hypothetical protein C05G6.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999
C;Accession: T32949
R;Kemp, K.
submitted to the EMBL Data Library, February 1998
A;Description: The sequence of C. elegans cosmid C05G6.
A;Reference number: Z21252
A;Accession: T32949
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-341 <KEM>
A;Cross-references: EMBL:AF045635; PIDN:AAC02556.1; GSPDB:GN00022; CESP:C05G6.3
A;Experimental source: strain Bristol N2; clone C05G6
C;Genetics:
A;Gene: CESP:C05G6.3
A;Map position: 4
A;Introns: 52/2; 110/1; 151/3; 195/1; 254/3; 295/3

Query Match 2.9%; Score 13; DB 2; Length 341;
Best Local Similarity 100.0%; Pred. No. 0.00054; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 91 TTTT TTTT TTTT TTTT 103

RESULT 16
T20658
probable zinc metalloproteinase F09E8.6 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T20658

R;Percy, C.
submitted to the EMBL Data Library, May 1996
A;Reference number: Z19307
A;Accession: T20658
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-517 <WIL>
A;Cross-references: UNIPROT:Q19269; EMBL:Z73896; PIDN:CAA98057.1; GSPDB:GN00022; CESP:F0
A;Experimental source: clone F09E8
C;Genetics:
A;Gene: CESP:F09E8.6
A;Map position: 4
A;Introns: 40/1; 110/3; 141/2; 219/3; 393/1
C;Superfamily: probable zinc metalloproteinase T04G9.2

Query Match 2.9%; Score 13; DB 2; Length 517;
Best Local Similarity 100.0%; Pred. No. 0.00091; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 334 TTTT TTTT TTTT TTTT 346

RESULT 17
T23739
hypothetical protein M106.2 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T23739
R;Palmer, S.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19792
A;Accession: T23739
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-519 <WIL>
A;Cross-references: UNIPROT:Q09592; EMBL:Z46935; PIDN:CAA87049.1; GSPDB:GN00020; CESP:M1
A;Experimental source: clone M106
C;Genetics:
A;Gene: CESP:M106.2
A;Map position: 2
A;Introns: 47/2; 110/3; 185/2; 231/2; 270/2; 321/2; 347/3; 411/3; 452/3
C;Superfamily: Caenorhabditis elegans hypothetical protein M106.2

Query Match 2.9%; Score 13; DB 2; Length 519;
Best Local Similarity 100.0%; Pred. No. 0.00091; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 502 TTTT TTTT TTTT TTTT 514

RESULT 18
S18408
alkaline phosphatase (EC 3.1.3.1) - rat
N;Alternate names: phytase
C;Species: Rattus norvegicus (Norway rat)
C;Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: S18408; S17576
R;Strom, M.; Krisinger, J.; DeLuca, H.F.
Biochim. Biophys. Acta 1090, 299-304, 1991
A;Title: Isolation of a mRNA that encodes a putative intestinal alkaline phosphatase reg
A;Reference number: S18408; MUID:92062729; PMID:1954251
A;Accession: S18408
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-551 <STR>
A;Cross-references: UNIPROT:P51740
A;Note: the correct sequence of residues 144-160 is shown in Fig. 2; the corresponding c
R;Yang, W.J.; Matsuda, Y.; Sano, S.; Masutani, H.; Nakagawa, H.
Biochim. Biophys. Acta 1075, 75-82, 1991

A;Title: Purification and characterization of phytase from rat intestinal mucosa.
A;Reference number: S17576; MUID:91370007; PMID:1654110
A;Accession: S17576
A;Molecule type: protein
A;Residues: 20-29 <YAN>
A;Note: 10-Val was also found
C;Superfamily: alkaline phosphatase
C;Keywords: phosphoric monoester hydrolase

Query Match 2.9%; Score 13; DB 2; Length 551;
Best Local Similarity 100.0%; Pred. No. 0.00096;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 511 TTTT TTTT TTTT TTTT 523

RESULT 19

T32661
hypothetical protein K11D12.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999
C;Accession: T32661

R;Henkhaus, J.; Wohldmann, P.; Gillam, B.
submitted to the EMBL Data Library, December 1997
A;Description: The sequence of C. elegans cosmid K11D12.

A;Reference number: Z21207
A;Accession: T32661
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-560 <HEN>
A;Cross-references: EMBL:AF039047; PIDN:AAB94223.1; GSPDB:GN00023; CESP:K11D12.1
A;Experimental source: Strain Bristol N2; clone K11D12
C;Genetics:
A;Gene: CESP:K11D12.1
A;Map position: 5
A;Introns: 5/3; 48/3; 90/3; 127/3; 149/3; 190/1; 207/1; 233/3; 264/1; 480/1

Query Match 2.9%; Score 13; DB 2; Length 560;
Best Local Similarity 100.0%; Pred. No. 0.00097;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 345 TTTT TTTT TTTT TTTT 357

RESULT 20

T21175
hypothetical protein F55D12.5 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T21175; T22735

R;McMurray, A.
submitted to the EMBL Data Library, June 1996

A;Reference number: Z19385
A;Accession: T21175
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-651 <WIL>
A;Cross-references: UNIPROT:Q19659; EMBL:Z75538; PIDN:CAA99842.1; GSPDB:GN00019; CESP:F55D12.5
A;Experimental source: clone F20G4
R;McMurray, A.
submitted to the EMBL Data Library, June 1996
A;Reference number: Z19606
A;Accession: T22735

A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-651 <W12>
A;Cross-references: EMBL:Z75542; PIDN:CAA99864.1; GSPDB:GN00019; CESP:F55D12.5

A;Experimental source: clone F55D12
C;Genetics:

A;Gene: CESP:F55D12.5
A;Map position: 1
A;Introns: 29/2; 54/3; 93/3; 180/2; 236/1; 264/2; 471/3; 486/3; 583/3

Query Match 2.9%; Score 13; DB 2; Length 651;
Best Local Similarity 100.0%; Pred. No. 0.0011;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 513 TTTT TTTT TTTT TTTT 525

RESULT 21

S51592
XynB precursor - Ruminococcus flavefaciens
C;Species: Ruminococcus flavefaciens
C;Date: 15-Jul-1995 #sequence_revision 01-Sep-1995 #text_change 09-Jul-2004
C;Accession: S51592

R;Zhang, J.X.; Martin, J.; Flint, H.J.

Mol. Gen. Genet. 245, 260-264, 1994

A;Title: Identification of non-catalytic conserved regions in xylanases encoded by the xyl

A;Reference number: S51592; MUID:95115675; PMID:7816035

A;Accession: S51592

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-781 <ZHA>

A;Cross-references: UNIPROT:Q52753; EMBL:Z35226; NID:g516273; PIDN:CAA84537.1; PID:g51627

F;42-239/Domain: endo-1,4-beta-xylanase homology <XYL>

F;258-401/Domain: Thermotoga xylanase A amino-terminal repeat homology <TXA>

Query Match 2.9%; Score 13; DB 2; Length 781;
Best Local Similarity 100.0%; Pred. No. 0.0013;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 672 TTTT TTTT TTTT TTTT 684

RESULT 22

T08611

hypothetical protein DocA - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum

C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004

C;Accession: T08611

R;Aubry, L.; Firtel, R.A.; Iranfar, N.

submitted to the EMBL Data Library, August 1997

A;Reference number: Z16456

A;Accession: T08611

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: mRNA

A;Residues: 1-831 <AUB>

A;Cross-references: UNIPROT:Q15756; EMBL:AF020409; NID:g2425146; PID:g2425147

A;Experimental source: strain AX4

C;Genetics:

A;Gene: docA

Query Match 2.9%; Score 13; DB 2; Length 831;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 7 TTTT TTTT TTTT TTTT 19

RESULT 23

T08606

protein phosphatase 2C-like protein Spalten - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum

C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004

C;Accession: T08606

R;Aubry, L.; Firtel, R.A.
submitted to the EMBL Data Library, August 1997
A:Reference number: Z16454
A:Accession: J08606
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-975 <AUB>
A:Cross-references: UNIPROT:O15743; EMBL:AF019985; NID:g2425120; PID:g2425121
A:Experimental source: strain AX3
C:Genetics:
A:Gene: spnA

Query Match 2.9%; Score 13; DB 2; Length 975;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 TTTT TTTT TTTT TTTT 352
|||||
Db 560 TTTT TTTT TTTT TTTT 572

RESULT 24
S12519
glutactin - fruit fly (Drosophila melanogaster)
C:Species: Drosophila melanogaster
C:Date: 19-Mar-1997 #sequence_revision 25-Apr-1997 #text_change 09-Jul-2004
C:Accession: S12519
R;Olson, P.F.; Fessler, L.I.; Nelson, R.E.; Sterne, R.E.; Campbell, A.G.; Fessler, J.H.
EMBO J. 9, 1219-1227, 1990
A:Title: Glutactin, a novel Drosophila basement membrane-related glycoprotein with sequence homology to the human laminin alpha 5 chain
A:Reference number: S12519; MUID:90214632; PMID:2108864
A:Accession: S12519
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-1023 <OLS>
A:Cross-references: UNIPROT:P33438; EMBL:X53286; NID:g297084; PIDN:CAA37380.1; PID:g297084
C:Genetics:
A:Introns: 390/3

Query Match 2.9%; Score 13; DB 2; Length 1023;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
|||||
Db 603 TTTT TTTT TTTT TTTT 615

RESULT 25
JC2217
major surface glycoprotein 5 - Pneumocystis carinii
C:Species: Pneumocystis carinii
C:Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change 09-Jul-2004
C:Accession: JC2217
R;Kitada, K.; Wada, M.; Nakamura, Y.
DNA Res. 1, 57-66, 1994
A:Title: Multi-gene family of major surface glycoproteins of Pneumocystis carinii: full-length cDNA clones and their expression in transgenic mice
A:Reference number: JC2217; MUID:96051981; PMID:7584029
A:Accession: JC2217
A:Molecule type: mRNA
A:Residues: 1-1076 <KIT>
A:Cross-references: UNIPROT:Q01830; DBJ:D21827; NID:g425784; PIDN:BAA04851.1; PID:d10051
C:Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C:Keywords: Glycoprotein
P:245, 471, 574, 804, 837/Binding site: carbohydrate (Asn) #status predicted

Query Match 2.9%; Score 13; DB 2; Length 1076;
Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
|||||
Db 951 TTTT TTTT TTTT TTTT 963

RESULT 26

JC2300
cell surface glycoprotein MSG100 - Pneumocystis carinii
C:Species: Pneumocystis carinii
C:Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C:Accession: JC2300
R;Wada, M.; Nakamura, Y.
DNA Res. 1, 163-168, 1994
A:Title: MSG gene cluster encoding major cell surface glycoproteins of rat Pneumocystis carinii
A:Reference number: JC2299; MUID:96051989; PMID:8535973
A:Accession: JC2300
A:Molecule type: DNA
A:Residues: 1-1083 <WAD>
A:Cross-references: UNIPROT:Q12075; GB:D31909; GB:D17441; NID:g559718; PIDN:BAA06705.1; PID:g559718
C:Genetics:
A:Gene: MSG100
C:Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C:Keywords: glycoprotein

Query Match 2.9%; Score 13; DB 2; Length 1083;
Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
|||||
Db 959 TTTT TTTT TTTT TTTT 971

RESULT 27

T18257
phospholipase C - Yeast (Candida albicans)
C:Species: Candida albicans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C:Accession: T18257
R;Bennett, D.E.; McCreary, C.E.; Coleman, D.C.
Microbiology 144, 55-72, 1998
A:Title: Genetic characterization of a phospholipase C gene from Candida albicans: presence of a conserved catalytic domain
A:Reference number: Z18844; MUID:98129081; PMID:9467900
A:Accession: T18257
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-1099 <BEN>
A:Cross-references: UNIPROT:O13433; EMBL:Y13975; NID:g2462981; PIDN:CAA74308.1; PID:g2462981
C:Genetics:
A:Gene: PLC1
P:566-726/Domain: 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase domain X homologue

Query Match 2.9%; Score 13; DB 2; Length 1099;
Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
|||||
Db 746 TTTT TTTT TTTT TTTT 758

RESULT 28

JE0120
glycoprotein A - mouse
C:Species: Mus musculus (house mouse)
C:Date: 02-Jun-1998 #sequence_revision 10-Jul-1998 #text_change 15-Jun-2001
C:Accession: JE0120
R;Haidaris, C.G.; Medzhradsky, O.F.; Gigliotti, F.; Simpson-haidaris, P.J.
DNA Res. 5, 77-85, 1998
A:Title: Molecular characterization of mouse Pneumocystis carinii surface glycoprotein A
A:Reference number: JE0120; MUID:98344138; PMID:9679195
A:Accession: JE0120
A:Molecule type: mRNA
A:Residues: 1-1282 <HAI>
A:Cross-references: GB:AF143102
C:Comment: This protein is a surface antigen of pneumonia.

C;Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C;Keywords: Glycoprotein
F;248,612,717,779,1063/Binding site: carbohydrate (Asn) #status predicted

Query Match 2.9%; Score 13; DB 2; Length 1282;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTT 353
|||||
Db 1158 TTTTNTTTTTTTTT 1170

RESULT 29
T17456
cell surface protein DTPA - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 09-Jun-2000 #sequence_revision 09-Jun-2000 #text_change 09-Jul-2004
C;Accession: T17456
R;Ginger, R.S.; Drury, L.; Baader, C.; Zhukovskaya, N.V.; Williams, J.G.
A;Title: A novel Dictyostelium cell surface protein important for both cell adhesion and development 125, 3343-3352, 1998
A;Reference number: Z18798; MUID:98359946; PMID:9693138
A;Accession: T17456
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-1402 <GIN>
A;Cross-references: UNIPROT:O96668; EMBL:AF102575; NID:G4063398; PID:G4063399; PIDN:AA88
A;Experimental source: strain AX2
C;Genetics:
A;Gene: dtfa
C;Function:
A;Description: involved in the cell adhesion and cell sorting

Query Match 2.9%; Score 13; DB 2; Length 1402;
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTT 353
|||||
Db 74 TTTTNTTTTTTTTT 86

RESULT 30
T14075
chitinase (EC 3.2.1.14) - yellow fever mosquito
C;Species: Aedes aegypti (yellow fever mosquito)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C;Accession: T14075
R;de la Vega, H.; Specht, C.A.; Liu, Y.; Robbins, P.W.
A;Title: Chitinases are a multi-gene family in Aedes, Anopheles, and Drosophila.
A;Reference number: Z17872
A;Accession: T14075
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-1635
A;Cross-references: UNIPROT:O17412; EMBL:AF026492; NID:G2564720; PID:G2564721; PIDN:AA88
C;Genetics:
A;Gene: CHT2
A;Introns: 462/3; 524/3; 618/1; 951/3; 1151/2
C;Keywords: glycosidase; hydrolase; polysaccharide degradation

Query Match 2.9%; Score 13; DB 2; Length 1635;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTT 353
|||||
Db 217 TTTTNTTTTTTTTT 229

RESULT 31
T18273
1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 2 - slime mold (Dictyostelium discoideum)

S71628
sensory transduction histidine kinase doka - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 27-Nov-1997 #sequence_revision 12-Dec-1997 #text_change 09-Jul-2004
C;Accession: S71628; S78068
R;Schuster, S.C.; Noegel, A.A.; Oehme, F.; Gerisch, G.; Simon, M.I.
EMBO J. 15, 3880-3889, 1996
A;Title: The hybrid histidine kinase Doka is part of the osmotic response system of Dicty
A;Reference number: S71628; MUID:96324396; PMID:8670893
A;Accession: S71628
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-1670 <SCH>
A;Cross-references: UNIPROT:Q23901; EMBL:X96869
A;Experimental source: strain AX2; substrain 214
R;Schuster, S.C.; Noegel, A.A.; Oehme, F.; Gerisch, G.; Simon, M.I.
submitted to the EMBL Data Library, March 1996
A;Description: The hybrid histidine kinase Doka is part of the osmotic response system of
A;Reference number: S78068
A;Accession: S78068
A;Molecule type: DNA
A;Residues: 1-149, 'E', 151-219, 'TVLVKLIQSTNNWIYV', 238-1671 <SCW>
A;Cross-references: EMBL:X96869; NID:G1237201; PIDN:CAA65612.1; PID:G1237202
C;Genetics:
A;Gene: doka
C;Function:
A;Description: modulates cell response to changes in osmolarity; involved in spore format
C;Keywords: phosphoprotein; signal transduction
F;1520-1629/Domain: response regulator homology <RRH>
F;1568/Binding site: phosphate (Asp) (covalent) #status predicted

Query Match 2.9%; Score 13; DB 2; Length 1671;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTT 353
|||||
Db 399 TTTTNTTTTTTTTT 411

RESULT 32
A59235
unconventional myosin heavy chain Myom - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 19-May-2000 #sequence_revision 19-May-2000 #text_change 09-Jul-2004
C;Accession: A59235
R;Geisler, H.; Schwarz, E.C.; Soldati, T.
submitted to GenBank, September 1998
A;Description: Identification of two novel and highly divergent myosins in Dictyostelium
A;Reference number: A59235
A;Accession: A59235
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-1737 <GEI>
A;Cross-references: UNIPROT:O9TW28; GB:AF090533; NID:G5714395; PIDN:AAD47903.1; PID:G5714
A;Experimental source: strain AX2
C;Genetics:
A;Gene: myom
A;Map position: 6, aldB-cabA2
F;62-874/Domain: myosin motor domain homology #status atypical <MMO>

Query Match 2.9%; Score 13; DB 2; Length 1737;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTT 353
|||||
Db 1053 TTTTNTTTTTTTTT 1065

RESULT 33
T18273
1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 2 - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum
 C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T18273
 R;Zhou, K.; Takegawa, K.; Emr, S.D.; Firtel, R.A.
 Mol. Cell. Biol. 15, 5645-5656, 1995
 A;Title: A phosphatidylinositol (PI) kinase gene family in Dictyostelium discoideum: Bid
 A;Reference number: Z06411
 A;Accession: T18273
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: mRNA
 A;Residues: 1-1858 <ZHO>
 A;Cross-references: UNIPROT:P54674; EMBL:U23477; NID:g733521; PID:g733522; PIDN:AAA65722
 C;Genetics:
 A;Gene: PIK2
 C;Keywords: phosphotransferase

Query Match 2.7%; Score 13; DB 2; Length 1858;
 Best Local Similarity 100.0%; Pred. No. 0.0027;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
 |||||
 Db 715 TTTT TTTT TTTT TTTT 727

RESULT 34
 S05358
 hypothetical protein (clone AAC1) - slime mold (Dictyostelium discoideum) (fragment)
 C;Species: Dictyostelium discoideum
 C;Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 09-Jul-2004
 C;Accession: S05358
 R;Shaw, D.R.; Richter, H.; Giorda, R.; Ohmachi, T.; Ennis, H.L.
 Mol. Gen. Genet. 218, 453-459, 1989
 A;Title: Nucleotide sequences of Dictyostelium discoideum developmentally regulated cDNA
 A;Reference number: S05355; MUID:90066348; PMID:2511421
 A;Accession: S05358
 A;Molecule type: mRNA
 A;Residues: 1-183 <SHA>
 A;Cross-references: UNIPROT:P14195; EMBL:X16525; NID:g7172; PIDN:CAA34532.1; PID:g930011

Query Match 2.7%; Score 12; DB 2; Length 183;
 Best Local Similarity 100.0%; Pred. No. 0.0032;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
 |||||
 Db 34 TTTT TTTT TTTT TTTT 45

RESULT 35
 T29557
 hypothetical protein Cl6D9.1 - Caenorhabditis elegans
 C;Species: Caenorhabditis elegans
 C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T29557
 R;Gattung, S.; Le, T.T.
 submitted to the EMBL Data Library, July 1996
 A;Description: The sequence of C. elegans cosmid Cl6D9.
 A;Reference number: Z20640
 A;Accession: T29557
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: DNA
 A;Residues: 1-342 <GAT>
 A;Cross-references: UNIPROT:Q22902; EMBL:U64858; PIDN:AAB18288.1; GSPDB:GN000023; CESP:CH
 A;Experimental source: strain Bristol N2; clone Cl6D9
 C;Genetics:
 A;Gene: CESP:Cl6D9.1
 A;Map position: 5
 A;Introns: 59/2; 316/3

Query Match 2.7%; Score 12; DB 2; Length 342;
 Best Local Similarity 100.0%; Pred. No. 0.0054;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTT TTTT TTTT TTTT 351
 |||||
 Db 275 PTTT TTTT TTTT TTTT 286

RESULT 36
 T31631
 hypothetical protein Y57A10A.i - Caenorhabditis elegans
 C;Species: Caenorhabditis elegans
 C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T31631
 R;Smye, R.
 submitted to the EMBL Data Library, September 1999
 A;Reference number: Z21048
 A;Accession: T31631
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: DNA
 A;Residues: 1-458 <WIL>
 A;Cross-references: UNIPROT:Q9NA83; EMBL:AL117195; NID:e1549729; PIDN:CAB55014.1; CESP:Y.
 A;Experimental source: clone Y57A10A
 C;Genetics:
 A;Gene: CESP:Y57A10A.i
 A;Introns: 8/3; 54/3; 112/3; 151/1

Query Match 2.7%; Score 12; DB 2; Length 458;
 Best Local Similarity 100.0%; Pred. No. 0.0069;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
 |||||
 Db 134 TTTT TTTT TTTT TTTT 145

RESULT 37
 A54843
 nemo, form I - fruit fly (Drosophila melanogaster)
 C;Species: Drosophila melanogaster
 C;Date: 03-Oct-1995 #sequence_revision 03-Oct-1995 #text_change 09-Jul-2004
 C;Accession: A54843
 R;Choi, K.W.; Benzer, S.
 Cell 78, 125-136, 1994
 A;Title: Rotation of photoreceptor clusters in the developing Drosophila eye requires th
 A;Reference number: A54843; MUID:94306509; PMID:8033204
 A;Accession: A54843
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-477 <CHO>
 A;Cross-references: UNIPROT:Q23993; GB:U12009; NID:gs15669; PIDN:AAA21124.1; PID:gs532558
 C;Genetics:

Query Match 2.7%; Score 12; DB 2; Length 477;
 Best Local Similarity 100.0%; Pred. No. 0.0071;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
 |||||
 Db 421 TTTT TTTT TTTT TTTT 432

RESULT 38
 S33640
 homeotic protein smox-2, engrailed-like - fluke (Schistosoma mansoni)
 C;Species: Schistosoma mansoni
 C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 16-Aug-2004
 C;Accession: S33640; S27841
 R;Webster, P.J.; Mansour, T.E.

Mech. Dev. 38, 25-32, 1992
A;Title: Conserved classes of homeodomains in Schistosoma mansoni, an early bilateral metazoan
A;Reference number: S33640; MUID:92399260; PMID:1356008
A;Accession: S33640
A;Molecule type: mRNA
A;Residues: 1-524 <WEB>
A;Cross-references: UNIPROT:Q26601; EMBL:S44191; EMBL:M85305; NID:g161103; PIDN:AAA29929
C;Genetics:
A;Gene: smox-2
C;Superfamily: homeobox homology
C;Keywords: DNA binding; homeobox; nucleus; transcription regulation
F;424-480/Domain: homeobox homology <HOM>

Query Match 2.7%; Score 12; DB 2; Length 524;
Best Local Similarity 100.0%; Pred. No. 0.0077;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 352
Db 104 TTTT TTTT TTTT TTTT 115

RESULT 39
T32812
hypothetical protein H17B01.2 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
A;Accession: T32812
R;Gattung, S.; Meggi, L.
submitted to the EMBL Data Library, December 1997
A;Description: The sequence of C. elegans cosmid H17B01.
A;Reference number: Z21227
A;Accession: T32812
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-530 <GAT>
A;Cross-references: UNIPROT:O61209; EMBL:AF040646; PIDN:AAB94986.1; GSPDB:GN000020; CESP:
C;Genetics:
A;Gene: CESP:H17B01.2
A;Map position: 2
A;Introns: 42/3; 58/1; 173/3; 268/2; 308/2; 340/1; 364/2; 387/3

Query Match 2.7%; Score 12; DB 2; Length 530;
Best Local Similarity 100.0%; Pred. No. 0.0078;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 352
Db 292 TTTT TTTT TTTT TTTT 303

RESULT 40
B36307
alkaline phosphatase (EC 3.1.3.1), intestinal - mouse
C;Species: Mus musculus (house mouse)
C;Date: 28-Mar-1991 #sequence_revision 28-Mar-1991 #text_change 16-Aug-2004
A;Accession: B36307
R;Manes, T.; Glade, K.; Ziomek, C.A.; Millan, J.L.
Genomics 8, 541-554, 1990
A;Title: Genomic structure and comparison of mouse tissue-specific alkaline phosphatase
A;Reference number: A36307; MUID:91139124; PMID:2286375
A;Accession: B36307
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-559 <MAN>
A;Cross-references: UNIPROT:P24822; GB:M61705; NID:g194048; PIDN:AAA37873.1; PID:g194049
C;Superfamily: Alkaline phosphatase
C;Keywords: intestine; phosphoprotein; phosphoric monoester hydrolase

Query Match 2.7%; Score 12; DB 2; Length 559;
Best Local Similarity 100.0%; Pred. No. 0.0081;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 352
Db 513 TTTT TTTT TTTT TTTT 524

RESULT 41
T19939
hypothetical protein C44H4.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
A;Accession: T19939
R;Smye, R.
submitted to the EMBL Data Library, August 1996
A;Reference number: Z19200
A;Accession: T19939
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-680 <WIL>
A;Cross-references: UNIPROT:Q93374; EMBL:Z79598; PIDN:CAB01865.1; GSPDB:GN000028; CESP:C44
A;Experimental source: clone C44H4
C;Genetics:
A;Gene: CESP:C44H4.3
A;Map position: X
A;Introns: 26/3; 74/3; 122/3; 216/3; 364/3; 589/3

Query Match 2.7%; Score 12; DB 2; Length 680;
Best Local Similarity 100.0%; Pred. No. 0.0096;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 352
Db 463 TTTT TTTT TTTT TTTT 474

RESULT 42
T23454
hypothetical protein K08E3.6 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
A;Accession: T23454
R;McMurray, A.
submitted to the EMBL Data Library, November 1996
A;Reference number: Z19743
A;Accession: T23454
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-681 <WIL>
A;Cross-references: UNIPROT:Q9XUS9; EMBL:Z81568; PIDN:CAB04593.1; GSPDB:GN000021; CESP:K08E
A;Experimental source: clone K08E3
C;Genetics:
A;Gene: CESP:K08E3.6
A;Map position: 3
A;Introns: 36/1; 73/2; 237/3; 361/3; 612/3

Query Match 2.7%; Score 12; DB 2; Length 681;
Best Local Similarity 100.0%; Pred. No. 0.0096;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 343 TTTT TTTT TTTT TTTT 354
Db 259 TTTT TTTT TTTT TTTT 270

RESULT 43
A54796
regulatory protein CRAC - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 28-Oct-1994 #sequence_revision 28-Oct-1994 #text_change 09-Jul-2004
A;Accession: A54796
R;Insausti, R.; Kuspa, A.; Lilly, P.J.; Shaulsky, G.; Levin, L.R.; Loomis, W.F.; Devreotes, J.
J. Cell Biol. 126, 1537-1545, 1994
A;Title: CRAC, a cytosolic protein containing a pleckstrin homology domain, is required for

A;Reference number: A54796; MUID:94375528; PMID:8089184
A;Accession: A54796
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-698 <INS>
A;Cross-references: UNIPROT:P35401; GB:U06228; NID:G641960; PIDN:AAA61782.1; PID:G456398
C;Genetics:
A;Introns: 11/3; 153/1
C;Superfamily: Dictyostelium regulatory protein CRAC

Query Match 2.7%; Score 12; DB 2; Length 698;
Best Local Similarity 100.0%; Pred. No. 0.0098;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
| | | | | | | | | |
Db 352 TTTT TTTT TTTT TTTT 363

RESULT 44
A36910
xylanase, beta(1,3-1,4)-glucanase - Ruminococcus flavefaciens
C;Species: Ruminococcus flavefaciens
C;Date: 07-Apr-1994 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A36910
R;Flint, H.J.; Martin, J.; McPherson, C.A.; Daniel, A.S.; Zhang, J.X.
J. Bacteriol. 175, 2943-2951, 1993
A;Title: A bifunctional enzyme, with separate xylanase and beta(1,3-1,4)-glucanase domains
A;Reference number: A36910; MUID:93259938; PMID:8491715
A;Accession: A36910
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-802 <FLI>
A;Cross-references: UNIPROT:Q98310; GB:S61204; NID:G385910; PIDN:AAE26620.1; PID:G385911
A;Note: sequence extracted from NCBI backbone (NCBIN:131871, NCBI:P131872)
F;42-239/Domain: endo-1,4-beta-xylanase homology <XVL>
F;259-401/Domain: Thermotoga xylanase A amino-terminal repeat homology <TXA>

Query Match 2.7%; Score 12; DB 2; Length 802;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
| | | | | | | | | |
Db 532 TTTT TTTT TTTT TTTT 543

RESULT 45
T29634
hypothetical protein C12D12.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T29634
R;Nhan, M.; Hawkins, J.
submitted to the EMBL Data Library, March 1996
A;Description: The sequence of C. elegans cosmid C12D12.
A;Reference number: Z20656
A;Accession: T29634
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-825 <NHA>
A;Cross-references: UNIPROT:Q17921; EMBL:U51998; PIDN:AAA96080.1; GSPDB:GN00028; CESP:CL12D12
A;Experimental source: strain Bristol N2; clone C12D12
C;Genetics:
A;Gene: CESP-C12D12.1
A;Map position: X
A;Introns: 48/1; 86/3; 137/1; 172/3; 224/3; 253/1; 287/3; 328/2; 454/1; 487/3; 692/1
C;Superfamily: Epstein-Barr virus membrane antigen gp350

Query Match 2.7%; Score 12; DB 2; Length 825;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
| | | | | | | | | |
Db 748 TTTT TTTT TTTT TTTT 759

RESULT 46
T30546
major surface glycoprotein - Pneumocystis carinii (fragment)
C;Species: Pneumocystis carinii
C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 15-Jun-2001
C;Accession: T30546
R;Mei, Q.; Turner, R.E.; Sorial, V.; Klivington, D.; Angus, C.W.; Kovacs, J.A.
Infect. Immun. 66, 4268-4273, 1998
A;Title: Characterization of major surface glycoprotein genes of human Pneumocystis carinii
A;Reference number: Z17905; MUID:98380374; PMID:9712777
A;Accession: T30546
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1002 <MEI>
A;Cross-references: EMBL:AF038556; NID:G3560524; PID:G3560526; PIDN:AAC34981.1
A;Experimental source: f.sp. hominis
C;Genetics:
A;Gene: msg3
C;Superfamily: Pneumocystis carinii major surface glycoprotein MSG100

Query Match 2.7%; Score 12; DB 2; Length 1002;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 343 TTTT TTTT TTTT TTTT 354
| | | | | | | | | |
Db 902 TTTT TTTT TTTT TTTT 913

RESULT 47
S18253
laminin alpha-1 chain precursor - fruit fly (Drosophila melanogaster)
C;Species: Drosophila melanogaster
C;Date: 16-Sep-1992 #sequence_revision 24-Jul-1997 #text_change 09-Jul-2004
C;Accession: S28399; S18253
R;Kusche-Gullberg, M.; Garrison, K.; Mackrell, A.J.; Fessler, J.H.
EMBO J. 11, 4519-4527, 1992
A;Title: Laminin A chain: expression during Drosophila development and genomic sequence.
A;Reference number: S28399; MUID:93049203; PMID:1425586
A;Accession: S28399
A;Status: preliminary
A;Molecule type: nucleic acid
A;Residues: 1-3712 <KUS>
A;Cross-references: UNIPROT:Q00174; GB:M96388; NID:G157799; PIDN:AAA28662.1; PID:G157800
R;Garrison, K.; Mackrell, A.J.; Fessler, J.H.
J. Biol. Chem. 266, 22899-22904, 1991
A;Title: Drosophila laminin A chain sequence, interspecies comparison, and domain structure
A;Reference number: S18253; MUID:92078147; PMID:1744083
A;Accession: S18253
A;Molecule type: mRNA
A;Residues: 1762-3712 <GAR>
A;Cross-references: EMBL:M75882; NID:G157797; PIDN:AAA28661.1; PID:G157798
C;Genetics:
A;Gene: FlyBase:Lana
A;Cross-references: FlyBase:Fgn0002526
C;Superfamily: laminin alpha-1 chain; laminin G repeat homology; laminin-type EGF-like homology
C;Keywords: basement membrane; cell binding; coiled coil; disulfide bond; extracellular matrix
F;273-330/Domain: laminin-type EGF-like homology <LEG>
F;333-400/Domain: laminin-type EGF-like homology <LEG2>
F;541-584/Domain: laminin-type EGF-like homology <LEG1>
F;1776-2115/Domain: III <DOM3>
F;1776-1806/Domain: laminin-type EGF-like homology #status atypical <LE1>
F;1809-1856/Domain: laminin-type EGF-like homology <LE2>
F;1859-1914/Domain: laminin-type EGF-like homology <LE3>
F;1917-1967/Domain: laminin-type EGF-like homology <LE4>
F;1970-2014/Domain: laminin-type EGF-like homology <LE5>
F;2017-2061/Domain: laminin-type EGF-like homology <LE6>
F;2064-2109/Domain: laminin-type EGF-like homology <LE7>

```
F;2116-2697/Domain: I/II, heptad repeats <DOM2>
F;2698-3712/Domain: G <DOMG>
F;2698-2863/Domain: repeat G1 <RG1>
F;2864-3048/Domain: repeat G2 <RG2>
F;3049-3223/Domain: repeat G3 <RG3>
F;3079-3200/Domain: laminin G repeat homology <LG3>
F;3334-3528/Domain: repeat G4 <RG4>
F;3529-3712/Domain: repeat G5 <RG5>
F;1847,1850,1943,2024,2196,2215,2267,2301,2323,2482,2524,2538,2569,2699,2720,2890,2938,3072
Query Match          2.7%; Score 12; DB 2; Length 3712;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTT 351
Db 3272 PTTTTTTTTTTT 3283

RESULT 48
A55575
N;Alternate names: ankyrin form - human
C;Species: Homo sapiens (man)
C;Date: 03-Mar-1995 #sequence_revision 03-Mar-1995 #text_change 09-Jul-2004
C;Accession: A55575
R;Kordeli, E.; Lambert, S.; Bennett, V.
J. Biol. Chem. 270, 2352-2359, 1995
A;Title: Ankyrin-G. A new ankyrin gene with neural-specific isoforms localized at the axon
A;Reference number: A55575; MUID:95138209; PMID:7836469
A;Accession: A55575
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-4377 <KOR>
A;Cross-references: UNIPROT:Q12955; GB:U13616; NID:G608024; PIDN:AAA64834.1; PID:G608025
C;Genetics:
A;Gene: GDB:ANK3
A;Cross-references: GDB:424503; OMIM:600465
A;Map position: 10q21-10q21
C;Superfamily: unassigned ankyrin repeat proteins; ankyrin repeat homology; EGF homology
C;Keywords: alternative splicing; peripheral membrane protein
F;73-105/Domain: ankyrin repeat homology <AN01>
F;106-138/Domain: ankyrin repeat homology <AN02>
F;139-171/Domain: ankyrin repeat homology <AN03>
F;172-200/Domain: ankyrin repeat homology <AN04>
F;201-233/Domain: ankyrin repeat homology <AN05>
F;234-266/Domain: ankyrin repeat homology <AN06>
F;267-299/Domain: ankyrin repeat homology <AN07>
F;300-332/Domain: ankyrin repeat homology <AN08>
F;333-365/Domain: ankyrin repeat homology <AN09>
F;366-398/Domain: ankyrin repeat homology <AN10>
F;399-431/Domain: ankyrin repeat homology <AN11>
F;432-464/Domain: ankyrin repeat homology <AN12>
F;465-497/Domain: ankyrin repeat homology <AN13>
F;498-530/Domain: ankyrin repeat homology <AN14>
F;531-563/Domain: ankyrin repeat homology <AN15>
F;564-596/Domain: ankyrin repeat homology <AN16>
F;597-629/Domain: ankyrin repeat homology <AN17>
F;630-662/Domain: ankyrin repeat homology <AN18>
F;663-695/Domain: ankyrin repeat homology <AN19>
F;696-728/Domain: ankyrin repeat homology <AN20>
F;729-761/Domain: ankyrin repeat homology <AN21>
F;762-794/Domain: ankyrin repeat homology <AN22>
F;795-827/Domain: ankyrin repeat homology <AN23>

Query Match          2.7%; Score 12; DB 2; Length 4377;
Best Local Similarity 100.0%; Pred. No. 0.046;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 352
Db 3967 TTTTTTTTTTTT 3978
```

RESULT 49

D86417

Probable auxin-induced protein, 50455-50036 [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004
C;Accession: D86417

R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso, J.; Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.; anen, N.F.; Hughes, B.; Huizar, L.
Nature 408, 816-820, 2000

A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.; C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziani, Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, I.; ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.

A;Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.
A;Reference number: A86141; MUID:21016719; PMID:11130712
A;Accession: D86417
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-139 <STO>
A;Cross-references: UNIPROT:Q9C7Q5; GB:AE005172; NID:gl0092232; PIDN:AGI2648.1; GSPDB:G

C;Genetics:

A;Map position: 1

Query Match 2.5%; Score 11; DB 2; Length 139;

Best Local Similarity 100.0%; Pred. No. 0.021;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 351

Db 22 TTTTTTTTTTTT 32

RESULT 50

T26561

hypothetical protein Y24F12A.d - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 08-Sep-2000
C;Accession: T26561

R;Jennard, N.

submitted to the EMBL Data Library, September 1999

A;Reference number: Z20233

A;Accession: T26561

A;Status: preliminary; translated from GB/EMBL/DDB3

A;Molecule type: DNA

A;Residues: 1-164 <WIL>

A;Cross-references: EMBL:AL110480; PIDN:CAB54380.1; CESP:Y24F12A.d

A;Experimental source: clone Y24F12A

C;Genetics:

A;Gene: CESP:Y24F12A.d

A;Introns: 137/1

C;Superfamily: Caenorhabditis elegans hypothetical protein Y9D1A.2

Query Match 2.5%; Score 11; DB 2; Length 164;

Best Local Similarity 100.0%; Pred. No. 0.024;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 351

Db 112 TTTTTTTTTTTT 122

RESULT 51

C90029

hypothetical protein SA2097 [imported] - Staphylococcus aureus (strain N315)
C;Species: Staphylococcus aureus
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
C;Accession: C90029

R;Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.; Oguc ma, A.; Mizutani-Oi, Y.; Kobayashi, N.; Sawano, T.; Inoue, R.; Kaito, C.; Sekimizu, K.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K.

Lancet 357, 1225-1240, 2001
A;Title: Whole genome sequencing of methicillin-resistant *Staphylococcus aureus*.
A;Reference number: A89758; MUID:21311952; PMID:11418146
A;Accession: C90029
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-166 <KUR>
A;Cross-references: UNIPROT:Q99RW9; GB:BA000018; PID:gl3702104; PIDN:BA43396.1; GSPDB:C
C;Genetics:
A;Gene: SA2097

Query Match 2.5%; Score 11; DB 2; Length 166;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT 351
Db 44 TTTT TTTT TTTT 54

RESULT 52
T46896
merozoite surface antigen 2 [imported] - malaria parasite (Plasmodium falciparum) (fragm
C;Species: Plasmodium falciparum
C;Date: 17-Mar-2000 #sequence_revision 17-Mar-2000 #text_change 09-Jul-2004
C;Accession: T46896
R;Prescott, N.; Stowers, A.W.; Cheng, Q.; Bobogare, A.; Rzepczyk, C.M.; Saul, A.
Mol. Biochem. Parasitol. 63, 203-212, 1994
A;Title: Plasmodium falciparum genetic diversity can be characterized using the polymorph
A;Reference number: Z24128; MUID:94277144; PMID:8008018
A;Accession: T46896
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-208 <PRE>
A;Cross-references: UNIPROT:Q25949; EMBL:L19048; NID:G438839; PIDN:AAC37195.1; PID:G4388
C;Genetics:
A;Gene: MSA-2
A;Map position: 2
C;Superfamily: Epstein-Barr virus nuclear antigen

Query Match 2.5%; Score 11; DB 2; Length 208;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT 351
Db 99 TTTT TTTT TTTT 109

RESULT 53
T26560
hypothetical protein Y24F12A.c - *Caenorhabditis elegans*
C;Species: *Caenorhabditis elegans*
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 08-Sep-2000
C;Accession: T26560
R;Lennard, N.
submitted to the EMBL Data Library, September 1999
A;Reference number: Z20233
A;Accession: T26560
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-234 <WIL>
A;Cross-references: EMBL:AL110480; NID:e1542182; PIDN:CAB54379.1; CESP:Y24F12A.c
A;Experimental source: clone Y24F12A
C;Genetics:
A;Gene: CESP:Y24F12A.c
A;Introns: 12/2; 55/1; 200/1
C;Superfamily: *Caenorhabditis elegans* hypothetical protein Y9D1A.2

Query Match 2.5%; Score 11; DB 2; Length 234;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT 351
Db 175 TTTT TTTT TTTT 185

RESULT 54
S01360
salivary glue protein sgs-3 precursor - fruit fly (*Drosophila yakuba*)
C;Species: *Drosophila yakuba*
C;Date: 30-Sep-1989 #sequence_revision 30-Sep-1989 #text_change 09-Jul-2004
C;Accession: S01360; C25988
R;Martin, C.H.; Mayeda, C.A.; Meyerowitz, E.M.
J. Mol. Biol. 201, 273-287, 1988
A;Title: Evolution and expression of the sgs-3 glue gene of *Drosophila*.
A;Reference number: S01358; MUID:88332966; PMID:3138416
A;Accession: S01360
A;Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-263 <MAR>
A;Cross-references: UNIPROT:P13728
C;Genetics:
A;Gene: Sgs-3
A;Cross-references: FlyBase:FBgn0013172
C;Superfamily: salivary glue protein
F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-263/Product: salivary glue protein sgs-3 #status predicted <MAT>

Query Match 2.5%; Score 11; DB 2; Length 263;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTT TTTT TTTT 350
Db 96 PTTT TTTT TTTT 106

RESULT 55
T29596
hypothetical protein C04G6.2 - *Caenorhabditis elegans*
C;Species: *Caenorhabditis elegans*
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C;Accession: T29596
R;Anderson, K.; Chisoe, S.
submitted to the EMBL Data Library, April 1996
A;Description: The sequence of *C. elegans* cosmid C04G6.
A;Reference number: Z20648
A;Accession: T29596
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-373 <AND>
A;Cross-references: EMBL:U55854; PIDN:AAA98013.1; GSPDB:GN00020; CESP:C04G6.2
A;Experimental source: strain Bristol N2; clone C04G6
C;Genetics:
A;Gene: CESP:C04G6.2
A;Map position: 2
A;Introns: 33/3; 85/3; 143/1; 179/1; 226/2; 263/1; 310/2

Query Match 2.5%; Score 11; DB 2; Length 373;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT 351
Db 156 TTTT TTTT TTTT 166

RESULT 56
JC7783
RAD 23B protein - channel catfish
C;Species: *Ictalurus punctatus* (channel catfish)
C;Date: 02-Apr-2002 #sequence_revision 02-Apr-2002 #text_change 09-Jul-2004
C;Accession: JC7783

R;Liu, Z.; Li, P.; Kocabas, A.; Karsi, A.; Ju, Z.
Biochem. Biophys. Res. Commun. 289, 317-324, 2001
A;Title: Microsatellite-containing genes from the channel catfish brain: Evidence of tri-
A;Reference number: JC7783
A;Contents: Brain
A;Accession: JC7783
A;Molecule type: mRNA
A;Residues: 1-385 <LIU>
A;Cross-references: UNIPROT:Q7LZR8
C;Comment: This protein with a polythreonine tract, has importance in the nucleotide exc
C;Genetics:
A;Gene: rad23b
A;Introns: 76/3

Query Match 2.5%; Score 11; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 0.05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTITTTTTTT 351
Db 114 TTTTITTTTTTT 124

RESULT 57
T32467
hypothetical protein F52G3.5 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C;Accession: T32467
R;Blanchard, M.; Gattung, S.; Sansone, J.
Submitted to the EMBL Data Library, September 1997
A;Description: The sequence of C. elegans cosmid F52G3.
A;Reference number: Z21173
A;Accession: T32467
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-415 <BLA>
A;Cross-references: UNIPROT:Q9GZH9; EMBL:AF026212; PIDN:AAB71300.1; GSPDB:GN00028; CESP:
A;Experimental source: strain Bristol N2; clone F52G3
C;Genetics:
A;Gene: CESP:F52G3.5
A;Map position: X
A;Introns: 31/1; 49/1; 104/1; 117/1; 220/1; 241/2; 307/1; 370/3

Query Match 2.5%; Score 11; DB 2; Length 415;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTITTTTTTT 351
Db 203 TTTTITTTTTTT 213

RESULT 58
S58868
G protein-coupled receptor GCR1 - migratory locust
C;Species: Locusta migratoria (migratory locust)
C;Date: 15-Feb-1996 #sequence_revision 01-Mar-1996 #text_change 09-Jul-2004
C;Accession: S58868
R;Vanden Broeck, J.; Vultsteke, V.; Huybrechts, R.; De Loof, A.
J. Neurochem. 64, 2387-2395, 1995
A;Title: Characterization of a cloned locust tyramine receptor cDNA by functional expres
A;Reference number: S58868; MUID:95279966; PMID:7760020
A;Accession: S58868
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-484 <VAN>
A;Cross-references: UNIPROT:Q25321; EMBL:X69520; NID:G871404; PIDN:CAA49268.1; PID:G8714
A;Accession: S58869
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: mRNA
A;Residues: 1-307, 'D', 309-338, 'K', 340-484 <VA2>
A;Cross-references: EMBL:X69521; NID:G871406; PIDN:CAA49269.1; PID:G871407

A;Note: the nucleotide sequence was submitted to the EMBL Data Library, November 1992
C;Superfamily: octopamine receptor type I
C;Keywords: G protein-coupled receptor

Query Match 2.5%; Score 11; DB 2; Length 484;
Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTITTTTTTT 351
Db 350 TTTTITTTTTTT 360

RESULT 59
A35596
nuclear pore glycoprotein p62 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 09-Nov-1990 #sequence_revision 09-Nov-1990 #text_change 09-Jul-2004
C;Accession: A35596; A31762; I55336; S11666
R;Starr, C.M.; D'Onofrio, M.; Park, M.K.; Hanover, J.A.
J. Cell Biol. 110, 1861-1871, 1990
A;Title: Primary sequence and heterologous expression of nuclear pore glycoprotein p62.
A;Reference number: A35596; MUID:90277705; PMID:2190987
A;Accession: A35596
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-525 <STA>
A;Cross-references: UNIPROT:P17955; GB:X52583; NID:G57640; PIDN:CAA36813.1; PID:G57641
R;D'Onofrio, M.; Starr, C.M.; Park, M.K.; Holt, G.D.; Haltiwanger, R.S.; Hart, G.W.; Han
Proc. Natl. Acad. Sci. U.S.A. 85, 9595-9599, 1988
A;Title: Partial cDNA sequence encoding a nuclear pore protein modified by O-linked N-ac
A;Reference number: A31762; MUID:89071743; PMID:3200844
A;Accession: A31762
A;Molecule type: mRNA
A;Residues: 370, 'FR', 373-525 <DON>
A;Cross-references: GB:J04143; NID:G623564; PIDN:AAA60741.1; PID:G623565
A;Experimental source: hepatic
R;D'Onofrio, M.; Lee, M.D.; Starr, C.M.; Miller, M.; Hanover, J.A.
J. Biol. Chem. 266, 11980-11985, 1991
A;Title: The gene encoding rat nuclear pore glycoprotein p62 is intronless.
A;Reference number: I55336; MUID:91288076; PMID:2050692
A;Accession: I55336
A;Status: translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-525 <RES>
A;Cross-references: GB:M62992; NID:G205953; PIDN:AAA41789.1; PID:G205954
A;Experimental source: hepatic
C;Genetics:
A;Introns: #status absent
C;Keywords: coiled coil; glycoprotein

Query Match 2.5%; Score 11; DB 2; Length 525;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTITTTTTTT 351
Db 274 TTTTITTTTTTT 284

RESULT 60
A56573
nuclear pore complex glycoprotein p62 - mouse
C;Species: Mus musculus (house mouse)
C;Date: 21-Jul-1995 #sequence_revision 28-Jul-1995 #text_change 09-Jul-2004
C;Accession: A56573
R;Corde, V.; Waizenegger, I.; Krohne, G.
Eur. J. Cell Biol. 55, 31-47, 1991
A;Title: Nuclear pore complex glycoprotein p62 of Xenopus laevis and mouse: cDNA cloning
A;Reference number: A56573; MUID:92007945; PMID:1915419
A;Accession: A56573
A;Status: preliminary
A;Molecule type: mRNA

A;Residues: 1-526 <COR>
A;Cross-references: UNIPROT:Q63850; GB:S59342; NID:G236260; PIDN:AAB19953.1; PID:G236261
A;Note: sequence extracted from NCBI Backbone (NCBI:59342, NCBI:P:59343)
C;Comment: The amino end of this protein contains O-linked N-acetylglucosamine additions
C;Keywords: glycoprotein; nuclear membrane; peripheral membrane protein

Query Match 2.5%; Score 11; DB 2; Length 526;
Best Local Similarity 100.0%; Pred. No. 0.065; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0

Qy 341 TTTTNTTTTTT 351
| | | | |
Db 274 TTTTNTTTTTT 284

RESULT 61
A98199
translocated intimin receptor tir [imported] - Escherichia coli (strain O157:H7, substra
C;Species: Escherichia coli
C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004
C;Accession: A98199
R;Hayashi, T.; Makino, K.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.
gasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.
DNA Res. 8, 11-22, 2001
A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and gene
A;Reference number: A99629; MUID:21156231; PMID:11258796
A;Accession: A98199
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-558 <HAY>
A;Cross-references: UNIPROT:Q9R396; GB:BA000007; PIDN:BA837984.1; PID:gl3364036; GSPDB:G
A;Experimental source: strain O157:H7, substrain RMD 0509952
C;Genetics:
A;Gene: ECs4561

Query Match 2.5%; Score 11; DB 2; Length 558;
Best Local Similarity 100.0%; Pred. No. 0.068; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0

Qy 341 TTTTNTTTTTT 351
| | | | |
Db 393 TTTTNTTTTTT 403

RESULT 62
E86045
probable translocated intimin receptor protein tir [imported] - Escherichia coli (strain
C;Species: Escherichia coli
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
C;Accession: E86045
R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, D.J.; Mayhew
iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamouisis, K.; Apodaca,
Nature 409, 529-533, 2001
A;Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7.
A;Reference number: A85480; MUID:2107935; PMID:11206551
A;Accession: E86045
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-558 <STO>
A;Cross-references: UNIPROT:Q9R396; GB:AB005174; NID:gl2518449; PIDN:AG58825.1; GSPDB:G
A;Experimental source: strain O157:H7, substrain EDL933
C;Genetics:
A;Gene: tir

Query Match 2.5%; Score 11; DB 2; Length 558;
Best Local Similarity 100.0%; Pred. No. 0.068; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0

Qy 341 TTTTNTTTTTT 351
| | | | |
Db 393 TTTTNTTTTTT 403

RESULT 63
S47277
gp88 protein - murine cytomegalovirus
C;Species: murine cytomegalovirus, murine herpesvirus 1
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: S47277
R;Thaiele, R.; Lucin, P.; Schneider, K.; Koszinowski, U.
submitted to the EMBL Data Library, February 1994
A;Reference number: S47277
A;Accession: S47277
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-569 <THA>
A;Cross-references: UNIPROT:Q83183; EMBL:X77798; NID:G535195; PIDN:CAA54825.1; PID:G5351
C;Superfamily: murine cytomegalovirus gp88 protein

Query Match 2.5%; Score 11; DB 2; Length 569;
Best Local Similarity 100.0%; Pred. No. 0.069; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0

Qy 341 TTTTNTTTTTT 351
| | | | |
Db 473 TTTTNTTTTTT 483

RESULT 64
T24505
hypothetical protein T05C12.4 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T24505
R;Burton, J.
submitted to the EMBL Data Library, October 1995
A;Reference number: Z19901
A;Accession: T24505
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-649 <WIL>
A;Cross-references: UNIPROT:Q22225; EMBL:Z66500; PIDN:CAA91305.1; GSPDB:GN000020; CESP:T:0
A;Experimental source: clone T05C12
C;Genetics:
A;Gene: CESP:T05C12.4
A;Map position: 2
A;Introns: 28/3; 48/3; 103/3; 156/3; 192/3; 249/3; 408/3; 495/3; 623/3
C;Superfamily: Caenorhabditis elegans hypothetical protein T05C12.4

Query Match 2.5%; Score 11; DB 2; Length 649;
Best Local Similarity 100.0%; Pred. No. 0.078; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0

Qy 344 TTTTNTTTTTT 354
| | | | |
Db 355 TTTTNTTTTTT 365

RESULT 65
A45155
mucin FIM-C.1 - African clawed frog (fragment)
C;Species: Xenopus laevis (African clawed frog)
C;Date: 26-May-1994 #sequence_revision 26-May-1994 #text_change 09-Jul-2004
C;Accession: A45155
R;Hauser, P.; Hoffmann, W.
J. Biol. Chem. 267, 24620-24624, 1992
A;Title: P-domains as shuffled cysteine-rich modules in integumentary mucin C.1 (FIM-C.1
A;Reference number: A45155; MUID:93077556; PMID:1447205
A;Accession: A45155
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-662 <HAU>
A;Cross-references: UNIPROT:Q05049; GB:L02115; NID:G214147; PIDN:AAA74725.1; PID:G951460
F;162-202/Domain: trefoil homology <TRF1>
F;307-347/Domain: trefoil homology <TRF2>
F;354-394/Domain: trefoil homology <TRF3>

F;526-566/Domain: trefoil homology <TRF4>
F;573-613/Domain: trefoil homology <TRF5>
F;621-661/Domain: trefoil homology <TRF6>

Query Match 2.5%; Score 11; DB 2; Length 662;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTITTTTTTT 350
|||||

Db 433 PTTTITTTTTTT 443
|||||

RESULT 66

T25937

hypothetical protein ZC13.3 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T25937

R;Bradshaw, H.

submitted to the EMBL Data Library, August 1996

A;Description: The sequence of C. elegans cosmid ZC13.

A;Reference number: Z20113

A;Accession: T25937

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-732 <BRA>

A;Cross-references: UNIPROT:Q95Q40; EMBL:U67953; PIDN:AA807581.1; GSPDB:GN00028; CESP:ZC

C;Genetics:

A;Map position: X

A;Introns: 19/3; 52/2; 86/1; 169/1; 301/1; 365/1; 401/3; 506/2; 528/2; 553/1; 639/1; 663

Query Match

2.5%; Score 11; DB 2; Length 732;

Best Local Similarity 100.0%; Pred. No. 0.086;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTITTTTTTT 351
|||||

Db 214 TTTTITTTTTTT 224
|||||

RESULT 67

T22808

hypothetical protein F56H9.1 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T22808

R;Burton, J.

submitted to the EMBL Data Library, June 1996

A;Reference number: Z19618

A;Accession: T22808

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-770 <WIL>

A;Cross-references: UNIPROT:Q20908; EMBL:Z74473; PIDN:CAA98949.1; GSPDB:GN00023; CESP:ES

C;Genetics:

A;Map position: 5

A;Introns: 235/1; 262/2; 320/1; 367/2; 510/3; 654/1; 681/2

Query Match

2.58%; Score 11; DB 2; Length 770;

Best Local Similarity 100.0%; Pred. No. 0.09;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTITTTTTTT 351
|||||

Db 633 TTTTITTTTTTT 643
|||||

RESULT 68

C69493

hypothetical protein AF1948 - Archaeoglobus fulgidus

C;Species: Archaeoglobus fulgidus

C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004

C;Accession: C69493

R;Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.E.; Ketchum, K.A.; Dodson,

; Fleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkness, E.F.;

Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L.

Nature 390, 364-370, 1997

A;Authors: Uterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; Sykes, S.N.

Smith, H.O.; Woese, C.R.; Venter, J.C.

A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing archaeo

A;Reference number: A69250; MUID:98049343; PMID:9389475

A;Accession: C69493

A;Status: preliminary; nucleic acid sequence not shown; translation not shown

A;Molecule type: DNA

A;Residues: 1-816 <KLE>

A;Cross-references: UNIPROT:O28331; GB:AE000968; GB:AE000782; NID:g2689291; PIDN:AA889308

Query Match 2.5%; Score 11; DB 2; Length 816;

Best Local Similarity 100.0%; Pred. No. 0.094;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTITTTTTTT 350
|||||

Db 159 PTTTITTTTTTT 169
|||||

RESULT 69

T16232

hypothetical protein F32A5.2 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999

C;Accession: T16232

R;Pauley, A.

submitted to the EMBL Data Library, July 1995

A;Description: The sequence of C. elegans cosmid F32A5.

A;Reference number: Z18482

A;Accession: T16232

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-977 <PAU>

A;Cross-references: EMBL:U20864; NID:g669026; PID:g669033; PIDN:AAC46666.1; CESP:F32A5.2

A;Experimental source: strain Bristol N2

C;Genetics:

A;Gene: CESP:F32A5.2

A;Introns: 23/1; 58/3; 102/3; 136/2; 277/2; 380/2; 422/1; 502/1; 580/2; 648/1; 935/2

Query Match

2.5%; Score 11; DB 2; Length 977;

Best Local Similarity 100.0%; Pred. No. 0.11;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 338 PPPTTTTTTTTT 348
|||||

Db 357 PPPTTTTTTTTT 367
|||||

RESULT 70

T18275

1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 4 - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T18275

R;Zhou, K.; Takegawa, K.; Emr, S.D.; Firtel, R.A.

Mol. Cell. Biol. 15, 5645-5656, 1995

A;Title: A phosphatidylinositol (PI) kinase gene family in Dictyostelium discoideum: Bio

A;Reference number: Z06411

A;Accession: T18275

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-1093 <ZHO>

A;Cross-references: UNIPROT:P54677; EMBL:U23479; NID:g733527; PID:g733528; PIDN:AAA85725

C;Genetics:

I51382
achaete-scute homolog - chicken
C/Species: Gallus gallus (chicken)
C/Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 09-Jul-2004
C/Accession: I51382
R/Jasoni, C.L.; Walker, M.B.; Morris, M.D.; Reh, T.A.
Development 120, 769-783, 1994
A/Title: A chicken achaete-scute homolog (CASH-1) is expressed in a temporally and spatially regulated manner in the developing wing disc
A/Reference number: I51382; MUID:95324365; PMID:7600956
A/Accession: I51382
A/Status: preliminary; translated from GB/EMBL/DBDJ
A/Molecule type: mRNA
A/Residues: 1-219 <JAS>
A/Cross-references: UNIPROT:Q90575; EMBL:U01339; NID:g401726; PIDN:AAC59658.1; PID:g4017

Query Match 2.3%; Score 10; DB 2; Length 219;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 14 AAAAAAAAAPPG 23
| | | | | | | | | |
Db 28 AAAAAAAAAPPG 37

RESULT 74
A60095
larval glue protein Lgp-1 precursor - fruit fly (Drosophila virilis)
C/Species: Drosophila virilis
C/Date: 03-Mar-1993 #sequence_revision 03-Mar-1993 #text_change 09-Jul-2004
C/Accession: A60095; S50126; S44060
R/Swida, U.; Lucka, L.; Kress, H.
Development 108, 269-280, 1990
A/Title: Glue protein genes in Drosophila virilis: their organization, developmental consequences
A/Reference number: A60095; MUID:90276249; PMID:2351069
A/Accession: A60095
A/Molecule type: DNA
A/Residues: 1-232 <SWI>
A/Cross-references: UNIPROT:Q27423; GB:X76203; PIDN:G433481; PIDN:CAA53796.1; PID:G433482
R/Lanio, W.; Swida, U.; Kress, H.
Biochim. Biophys. Acta 1219, 576-580, 1994
A/Title: Molecular cloning of the Drosophila virilis larval glue protein gene Lgp-3 and its expression in the developing wing disc
A/Reference number: S50125; MUID:95002181; PMID:7918662
A/Accession: S50126
A/Status: preliminary; nucleic acid sequence not shown; translation not shown
A/Residues: 1-232 <LA2>
A/Cross-references: EMBL:Z29565; NID:g450901; PIDN:CAA82672.1; PID:g450903
A/Note: the nucleotide sequence was submitted to the EMBL Data Library, January 1994
C/Genetics:
A/Gene: FlyBase:Dvir/Lgp1
A/Cross-references: FlyBase:FBgn0010305
A/Map position: X16A
A/Introns: 10/1
C/Superfamily: salivary glue protein
C/Keywords: glycoprotein; salivary gland; tandem repeat
F/1-23/Domain: signal sequence #status predicted <Sig>
F/43-86, 94-104/Region: 11-residue repeats (T-T-T-T-P-C-P-T-T-T)
F/105-160/Region: 8-residue repeats (T-T-T-T-T-T-T-T-P)

Query Match 2.3%; Score 10; DB 2; Length 232;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTT 349
| | | | | | | | | |
Db 60 PTTTTTTTTT 69

RESULT 75
GSFP3
salivary glue protein sgs-3 - fruit fly (Drosophila melanogaster)
C/Species: Drosophila melanogaster
C/Date: 28-May-1986 #sequence_revision 28-May-1986 #text_change 09-Jul-2004

C;Accession: A03329
R;Garfinkel, M.D.; Pruitt, R.E.; Meyerowitz, E.M.
J. Mol. Biol. 168, 765-789, 1983
A;Title: DNA sequences, gene regulation and modular protein evolution in the Drosophila
A;Reference number: A92904; MUID:83294545; PMID:6411930
A;Accession: A03329
A;Molecule type: DNA
A;Residues: 1-307 <GAR>
A;Cross-references: UNIPROT:P02840; GB:X01918; NID:g8581; PIDN:CAA25994.1; PID:g603989
C;Comment: This protein is produced by third-instar larvae.
C;Genetics:
A;Gene: sgs-3
A;Cross-references: FlyBase:FBgn0003373
A;Map position: 3L (68C)
A;Introns: 10/1
C;Superfamily: salivary glue protein
C;Keywords: salivary gland; tandem repeat

Query Match 2.3%; Score 10; DB 1; Length 307;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTT 350
| | | | |
Db 45 TTTTTTTTTT 54

Search completed: June 28, 2005, 10:21:26
Job time : 32.5711 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:55:58 ; Search time 113.949 Seconds

(without alignments)
1986.316 Million cell updates/sec

Title: US-10-622-237-2

Perfect score: 442

Sequence: 1 MASVLPSSGSCAAAAA.....AIIAEGGQNNSEKEYFI 442

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 1612378 seqs, 512079187 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: listing first 150 summaries

Database :

UniProt 03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	341	77.1	442	2	Q8Y677 homo sapien
2	332	75.1	443	2	Q8N2F4 homo sapien
3	331	74.9	333	2	Q8W6B8 homo sapien
4	150	33.9	336	2	Q8OVG4 mus musculus
5	150	33.9	336	2	Q8D6E7 mus musculus
6	150	33.9	417	2	Q7TNL1 mus musculus
7	150	33.9	428	2	Q6F3J3 mus musculus
8	150	33.9	445	2	Q8K3T6 mus musculus
9	150	33.9	445	2	Q8R4L1 mus musculus
10	150	33.9	456	2	Q8R5M8 mus musculus
11	150	33.9	476	2	Q6AYP5 rattus norv
12	127	28.7	278	2	Q9QYL3 mus musculus
13	127	28.7	289	2	Q9QYL5 mus musculus
14	127	28.7	295	2	Q9QYL6 mus musculus
15	127	28.7	306	2	Q9QYL4 mus musculus
16	104	23.5	295	2	Q9Z2H8 mus musculus
17	84	19.0	84	2	Q6M2K6 homo sapien
18	15	3.4	74	2	Q61023 trypanosoma
19	15	3.4	86	2	Q9TVF2 trypanosoma
20	15	3.4	98	2	Q61038 trypanosoma
21	15	3.4	102	2	Q61033 trypanosoma
22	15	3.4	108	2	Q9XWNO caenorhabdi
23	15	3.4	115	2	Q61046 trypanosoma
24	15	3.4	121	2	Q6WAZ9 trypanosoma
25	15	3.4	122	2	Q61023 trypanosoma
26	15	3.4	125	2	Q61025 trypanosoma
27	15	3.4	125	2	Q962W4 trypanosoma
28	15	3.4	126	2	Q61021 trypanosoma
29	15	3.4	126	2	Q61056 trypanosoma
30	15	3.4	128	2	P90603 trypanosoma
31	15	3.4	139	2	Q61037 trypanosoma

32	15	3.4	139	2	P90601 trypanosoma
33	15	3.4	139	2	Q6WAZ8 trypanosoma
34	15	3.4	140	2	Q962W5 trypanosoma
35	15	3.4	143	2	O15776 trypanosoma
36	15	3.4	148	2	O61019 trypanosoma
37	15	3.4	148	2	Q6WB00 trypanosoma
38	15	3.4	148	2	Q25334 leishmania
39	15	3.4	327	2	Q86A81 d similar t
40	15	3.4	648	2	Q86A81 d similar t
41	15	3.4	1015	2	Q86A81 d similar t
42	14	3.2	58	2	Q6TUI3 rattus norv
43	14	3.2	107	2	O61050 trypanosoma
44	14	3.2	216	2	Q962W6 trypanosoma
45	14	3.2	304	1	Q9300 caenorhabdi
46	14	3.2	341	2	Q8IMS9 drosophila
47	14	3.2	350	2	Q9119 anopheles g
48	14	3.2	356	2	Q7P221 anopheles g
49	14	3.2	364	2	Q7S2P4 neotopora
50	14	3.2	365	2	Q869R5 dictyosteli
51	14	3.2	445	2	Q7Q956 dictyosteli
52	14	3.2	512	1	WR33 ARATH
53	14	3.2	517	1	IAIC DIACA
54	14	3.2	667	2	Q7YYO0 cryptospori
55	14	3.2	667	2	Q8ULH5 pyrococcus
56	14	3.2	746	2	Q9V515 drosophila
57	14	3.2	860	2	Q23916 dictyosteli
58	14	3.2	872	2	Q26257 dictyosteli
59	14	3.2	874	2	Q76535 dictyosteli
60	14	3.2	887	2	Q23913 dictyosteli
61	14	3.2	899	2	Q23895 dictyosteli
62	14	3.2	895	2	Q86A69 dictyosteli
63	14	3.2	937	2	Q86L47 dictyosteli
64	14	3.2	1166	2	Q8IP52 drosophila
65	14	3.2	1728	2	Q8SSU4 dictyosteli
66	14	3.2	1832	2	Q96503 cryptospori
67	14	3.2	1853	2	Q7KT96 drosophila
68	14	3.2	1893	2	Q9NKC9 drosophila
69	14	3.2	2208	2	Q86HN4 dictyosteli
70	14	3.2	3295	2	Q66GT3 rattus norv
71	14	3.2	3550	2	Q66GT4 rattus norv
72	13	2.9	56	2	Q01601 pneumocysti
73	13	2.9	56	2	Q86IE6 dictyosteli
74	13	2.9	67	2	Q95UY4 plasmodium
75	13	2.9	67	2	Q95UY6 plasmodium
76	13	2.9	67	2	Q86JN9 dictyosteli
77	13	2.9	71	2	Q9NI03 plasmodium
78	13	2.9	71	2	Q6R5F0 mus musculu
79	13	2.9	72	2	Q9W3Q9 drosophila
80	13	2.9	89	2	Q9NIP9 trypanosoma
81	13	2.9	106	2	Q6WB03 trypanosoma
82	13	2.9	106	2	Q6WB04 trypanosoma
83	13	2.9	106	2	Q6WB05 trypanosoma
84	13	2.9	107	2	Q6WB01 trypanosoma
85	13	2.9	107	2	Q6WB08 trypanosoma
86	13	2.9	107	2	Q9NI01 trypanosoma
87	13	2.9	108	2	Q6WB02 trypanosoma
88	13	2.9	109	2	Q01619 pneumocysti
89	13	2.9	115	2	Q9BJQ9 plasmodium
90	13	2.9	116	2	Q9BJQ2 plasmodium
91	13	2.9	118	2	Q9NIP8 trypanosoma
92	13	2.9	119	2	Q61034 trypanosoma
93	13	2.9	119	2	Q9N6G3 trypanosoma
94	13	2.9	120	2	Q9GQY0 plasmodium
95	13	2.9	120	2	Q9NIQ0 trypanosoma
96	13	2.9	123	2	O61027 trypanosoma
97	13	2.9	123	2	P90602 trypanosoma
98	13	2.9	128	2	Q9NIQ2 trypanosoma
99	13	2.9	130	2	Q6WB06 trypanosoma
100	13	2.9	131	2	Q9d9N0 mus musculu
101	13	2.9	132	2	Q9NIQ3 trypanosoma
102	13	2.9	139	2	Q7Z0N2 caenorhabdi
103	13	2.9	143	2	Q8IT82 plasmodium
104	13	2.9	150	2	Q9BJQ6 plasmodium

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105 13 2.9 150 2 Q9BJQ7 plasmodium
106 13 2.9 150 2 Q9GQX3 plasmodium
107 13 2.9 150 2 Q8LEL8 arabidopsis
108 13 2.9 152 2 Q8BS08 mus musculus
109 13 2.9 155 2 Q6USF5 plasmodium
110 13 2.9 157 2 Q257I3 plasmodium
111 13 2.9 160 2 Q94669 plasmodium
112 13 2.9 163 2 Q9NVJ5 homo sapien
113 13 2.9 163 2 Q8K1H8 mus musculus
114 13 2.9 164 2 Q9BJQ5 plasmodium
115 13 2.9 202 2 Q016I5 pneumocysti
116 13 2.9 205 2 Q15777 trypanosoma
117 13 2.9 205 2 Q15911 dictyosteli
118 13 2.9 207 2 Q25701 plasmodium
119 13 2.9 209 2 Q61055 trypanosoma
120 13 2.9 210 2 Q9Y025 trypanosoma
121 13 2.9 211 2 Q00026 ajellomyces
122 13 2.9 217 1 SGS3 DROSI
123 13 2.9 229 2 Q9VIA7 drosophila
124 13 2.9 242 2 Q9VDN0 drosophila
125 13 2.9 245 2 Q9XWP2 caenorhabdi
126 13 2.9 259 2 Q86IM4 dictyosteli
127 13 2.9 260 2 Q8ITB3 plasmodium
128 13 2.9 274 1 NSA2 PLAP6
129 13 2.9 277 2 Q86IC7 plasmodium
130 13 2.9 278 2 Q25862 plasmodium
131 13 2.9 283 2 Q86II5 dictyosteli
132 13 2.9 284 2 Q20202 caenorhabdi
133 13 2.9 291 2 Q658Q7 homo sapien
134 13 2.9 291 2 Q94467 dictyosteli
135 13 2.9 312 2 Q01824 pneumocysti
136 13 2.9 336 1 RT09 CANAL
137 13 2.9 337 2 Q86K30 dictyosteli
138 13 2.9 365 2 Q7YU08 trypanosoma
139 13 2.9 367 2 Q7YU08 trypanosoma
140 13 2.9 369 2 Q7YU01 trypanosoma
141 13 2.9 369 2 Q7YU02 trypanosoma
142 13 2.9 369 2 Q7YU03 trypanosoma
143 13 2.9 369 2 Q7YU04 trypanosoma
144 13 2.9 374 2 Q7QCS5 anopheles 9
145 13 2.9 386 2 Q01759 pneumocysti
146 13 2.9 392 2 Q8IIC1 plasmodium
147 13 2.9 392 2 Q69Z58 mus musculus
148 13 2.9 394 2 Q7ZXX1 xenopus lae
149 13 2.9 395 2 Q8BXJ7 mus musculus
150 13 2.9 395 2 Q8BZP4 mus musculus
```

ALIGNMENTS

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RESULT 1
Q9BY67 PRELIMINARY; PRT; 442 AA.
AC Q9BY67;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Nectin-like protein 2.
GN Name=NEC12;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
RL Submitted (MAR-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF132811; AAF69029.1; -.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; ig; 2.
DR Query Match 75.1%; Score 332; DB 2; Length 443;
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DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 442 AA; 48537 MW; 68183E3238735062 CRC64;

Query Match 77.1%; Score 341; DB 2; Length 442;
Best Local Similarity 99.8%; Pred. No. 1.3e-310;
Matches 441; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MASVILPSGQCAAAAAAAPPGLRLRLRLLLLPSSAALPTGQNLFTKQDVTVIIEGVA 60
Db 1 MASVILPSGQCAAAAAAAPPGLRLRLRLLLLPSSAALPTGQNLFTKQDVTVIIEGVA 60
Qy 61 TISCVNKSDDSVIQLLNPNRTIYFRDPRPLKDSRFQLLNFSSSLKSLVSLTNVSIISDEG 120
Db 61 TISCVNKSDDSVIQLLNPNRTIYFRDPRPLKDSRFQLLNFSSSLKSLVSLTNVSIISDEG 120
Qy 121 RYFCQLYTPPQBSYTTITLVPPRLNMDIQKDTAVEGEEIEVNCTAMASKPATIRWF 180
Db 121 RYFCQLYTPPQBSYTTITLVPPRLNMDIQKDTAVEGEEIEVNCTAMASKPATIRWF 180
Qy 181 KGNTELKKGSEVEEWSDMYTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQYRLEVQ 240
Db 181 KGNTELKKGSEVEEWSDMYTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQYRLEVQ 240
Qy 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOPMVTVWRVDDMPQHAVLSGNLFI 300
Db 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOPMVTVWRVDDMPQHAVLSGNLFI 300
Qy 301 NNLNKTDNGTYRCEASNIYVKAHSDYMLYVYDPPPTTIPPTTTTTTTTTTTILTIITD 360
Db 301 NNLNKTDNGTYRCEASNIYVKAHSDYMLYVYDPPPTTIPPTTTTTTTTTTTILTIITD 360
Qy 361 SRAGEGSTRVNDHAVIGGVAVVWFAMCLLIILGRYFARHKGTFTTHEAKGADDAADA 420
Db 361 SRAGEGSTRVNDHAVIGGVAVVWFAMCLLIILGRYFARHKGTFTTHEAKGADDAADA 420
Qy 421 DTAINAEGQNNSEKKEYFI 442
Db 421 DTAINAEGQNNSEKKEYFI 442

RESULT 2
Q8N2F4 PRELIMINARY; PRT; 443 AA.
ID Q8N2F4;
AC Q8N2F4;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein PSEC0200.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Whole embryo;
RA Ota T., Nishikawa T., Suzuki Y., Kawai-Hio Y., Hayaashi K., Ishii S.,
RA Saito K., Yamamoto J., Wakamatsu A., Nagai T., Nakamura Y.,
RA Nagahari K., Sugano S., Isogai T.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK075502; BAC11657.1; -.
DR Genew; HGNC:5951; IGSP4.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 443 AA; 48648 MW; 046B43AA156F6F64 CRC64;

Query Match 75.1%; Score 332; DB 2; Length 443;
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Best Local Similarity 100.0%; Pred. No. 3.5e-302;
Matches 332; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60
Qy 61 TISQVKNKSDSVTLQNLNPNRQTIYFRDPLKDSRFQNLNFSSELKVSILTNVSI SDEG 120
Db 61 TISQVKNKSDSVTLQNLNPNRQTIYFRDPLKDSRFQNLNFSSELKVSILTNVSI SDEG 120
Qy 121 RYFCOLYTDPPQESYTTITVLVPPRNLMIDIKDTAVEGEEIEVNCVTAMASKPATIRWF 180
Db 121 RYFCOLYTDPPQESYTTITVLVPPRNLMIDIKDTAVEGEEIEVNCVTAMASKPATIRWF 180
Qy 181 KGNTELKGKSEVEWSDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKGKSEVEWSDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240
Qy 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFI 300
Db 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFI 300
Qy 301 NNLNKTDNGTYRCEASNIIVGKAHSDYMLYVD 332
Db 301 NNLNKTDNGTYRCEASNIIVGKAHSDYMLYVD 332

RESULT 3
Q86WB8 PRELIMINARY; PRT; 333 AA.
ID Q86WB8
AC Q86WB8; 2003 (T-EMBLrel. 24, Created)
DT 01-JUN-2003 (T-EMBLrel. 24, Last sequence update)
DE 01-MAR-2004 (T-EMBLrel. 26, Last annotation update)
DE Secretory isoform of TSLC-1.
GN Name=stSLC-1;
OS Homo sapiens (Human);
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo;
OX NCBI_TaxID=9606;
RN [1]
RP TISSUE=Lung;
RC Submitted (OCT-2002) to the EMBL/GenBank/DBJ databases.
RA Ito A., Koma Y., Nagano T.;
DR EMBL; AB094146; BAC66178.1; -
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF00047; Ig_2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 333 AA; 36915 MW; D7C1102F46D08492 CRC64;

Query Match 74.9%; Score 331; DB 2; Length 333;
Best Local Similarity 100.0%; Pred. No. 2.3e-301;
Matches 331; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60
Qy 61 TISQVKNKSDSVTLQNLNPNRQTIYFRDPLKDSRFQNLNFSSELKVSILTNVSI SDEG 120
Db 61 TISQVKNKSDSVTLQNLNPNRQTIYFRDPLKDSRFQNLNFSSELKVSILTNVSI SDEG 120
Qy 121 RYFCOLYTDPPQESYTTITVLVPPRNLMIDIKDTAVEGEEIEVNCVTAMASKPATIRWF 180
Db 121 RYFCOLYTDPPQESYTTITVLVPPRNLMIDIKDTAVEGEEIEVNCVTAMASKPATIRWF 180
Qy 181 KGNTELKGKSEVEWSDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKGKSEVEWSDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240

Best Local Similarity 100.0%; Pred. No. 3.5e-302;
Matches 332; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFI 300
Db 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFI 300
Qy 301 NNLNKTDNGTYRCEASNIIVGKAHSDYMLYVD 331
Db 301 NNLNKTDNGTYRCEASNIIVGKAHSDYMLYVD 331

RESULT 4
Q80VG4 PRELIMINARY; PRT; 336 AA.
ID Q80VG4
AC Q80VG4; 2003 (T-EMBLrel. 24, Created)
DT 01-JUN-2003 (T-EMBLrel. 24, Last sequence update)
DT 25-OCT-2004 (T-EMBLrel. 28, Last annotation update)
DE A secretion form of SgIGSF/TSLC1 (RA175 isoform e).
GN Name=igsf4a; Synonyms=RA175, ssgIGSF/stSLC1;
OS Mus musculus (Mouse);
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Spleen cell-derived;
RA Ito A., Koma Y., Nagano T.;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB092414; BAC66173.1; -
DR EMBL; AB183402; BAD30021.1; -
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig_2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 336 AA; 37155 MW; 9EF3D8B8BE5E8F72 CRC64;

Query Match 33.9%; Score 150; DB 2; Length 336;
Best Local Similarity 100.0%; Pred. No. 1.1e-131;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 34 SAAALIPDGQNLFTKDVTVIEGVATISQVKNKSDSVTLQNLNPNRQTIYFRDPRPLK 93
Db 37 SAAALIPDGQNLFTKDVTVIEGVATISQVKNKSDSVTLQNLNPNRQTIYFRDPRPLK 96
Qy 94 DSRFQNLNFSSELKVSILTNVSI SDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIQK 153
Db 97 DSRFQNLNFSSELKVSILTNVSI SDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIQK 156
Qy 154 DTAVEGEEIEVNCVTAMASKPATIRWFKN 183
Db 157 DTAVEGEEIEVNCVTAMASKPATIRWFKN 186

RESULT 5
Q9D6E7 PRELIMINARY; PRT; 336 AA.
ID Q9D6E7
AC Q9D6E7; 2001 (T-EMBLrel. 17, Created)
DT 01-JUN-2001 (T-EMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
```

DE Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched
DE library, clone:290007306 product:immunoglobulin superfamily, member
DE 4, full insert sequence.
GN Name=Igsf4a; (Mouse).
OS Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RA The FANTOM Consortium,
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
RN [4]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
RA Shibata K., Itoh M., Aizawa K., Nagao S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitzunai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kaishiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kita A., Hayashizaki Y.;
RT "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RL Genome Res. 10:175-177(2000).
RN [6]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
RA Shibata K., Itoh M., Aizawa K., Nagao S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitzunai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kaishiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kita A., Hayashizaki Y.;
RT "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RL Genome Res. 10:175-177(2000).
RN [6]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,
RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
RA Hanagata T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,
RA Inotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ohno M.,
RA Okazaki Y., Okido T., Owa C., Saito K., Saito R., Sakai C., Sakai K.,
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shingawa A., Shiraki T.,
RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,
RA Toge Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
RA Muramatsu M., Hayashizaki Y.;
RT Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
RL EMBL: AK013775; BAB28988.1;
DR MGD: MGI:1189272; Igsf4a.
DR GO: GO:0016021; C:integral to membrane; TAS.
DR GO: GO:0045202; C:synapse; IDA.
DR GO: GO:0008021; C:synaptic vesicle; IDA.

DR GO: GO:0005515; F:protein binding; IPI.
DR GO: GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO: GO:0007155; P:cell adhesion; IDA.
DR GO: GO:0007416; P:synaptogenesis; IDA.
DR InterPro: IPR007110; Ig-like.
DR InterPro: IPR003598; Ig_c2.
DR Pfam: PF00047; ig; 2.
DR SMART: SM00408; IGC2; 1.
DR PROSITE: PS50835; IG_LIKE; 3.
SQ SEQUENCE 336 AA; 37157 MW; FF887FAF4EFD120 CRC64;
Query Match 33.9%; Score 150; DB 2; Length 336;
Best Local Similarity 100.0%; Pred. No. 1.1e-131;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 34 SAAALPTGGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNQTIYFRDRPLK 93
DB 37 SAAALPTGGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNQTIYFRDRPLK 96
QY 94 DSRFQLNFSSSELKVLNVSISDGRYFCOLYTPPOESYTTITVLVPPRNLMIDIOK 153
DB 97 DSRFQLNFSSSELKVLNVSISDGRYFCOLYTPPOESYTTITVLVPPRNLMIDIOK 156
QY 154 DTAVEGEEIEVNCVTAMASKPATTIRWFKGN 183
DB 157 DTAVEGEEIEVNCVTAMASKPATTIRWFKGN 186
RESULT 6
Q7TNL1 PRELIMINARY; PRT; 417 AA.
ID Q7TNL1
AC Q7TNL1;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Nectin-like molecule 2 (RA175 isoform d).
GN Name=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Brain;
RX MEDLINE=22841094; PubMed=12826663; DOI=10.1074/jbc.M305387200;
RA Shingai T., Ikeda M., Kakunaga S., Morimoto K., Takekuni K., Itoh S.,
RA Satoh K., Takeuchi M., Inai T., Monden M., Takai Y.;
RT "Implications of nectin-like molecule-
RT 2/IGSF4/RA175/SgIGSF/TS1C1/SyncAM1 in cell-cell adhesion and
RT transmembrane protein localization in epithelial cells.";
RL J. Biol. Chem. 278:35421-35427(2003).
RN [2]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL: AY351388; AAQ02381.1;
DR EMBL: AB183401; BAD30020.1;
DR GO: GO:0016021; C:integral to membrane; TAS.
DR GO: GO:0045202; C:synapse; IDA.
DR GO: GO:0008021; C:synaptic vesicle; IDA.
DR GO: GO:0005515; F:protein binding; IPI.
DR GO: GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO: GO:0007155; P:cell adhesion; IDA.
DR InterPro: IPR007110; Ig-like.
DR InterPro: IPR003598; Ig_c2.
DR InterPro: IPR003585; Neurexin-like.
DR Pfam: PF00047; ig; 2.
DR SMART: SM00294; 4.1m; 1.
DR PROSITE: PS50835; IG_LIKE; 3.
SQ SEQUENCE 417 AA; 45779 MW; 98500180D37845C2 CRC64;

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Query Match      33.9%; Score 150; DB 2; Length 417;
Best Local Similarity 100.0%; Pred. No. 1.3e-131; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

Qy 34 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPQRQTYFRDPRPLK 93
Db 37 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPQRQTYFRDPRPLK 96

Qy 94 DSRFQLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 153
Db 97 DSRFQLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 156

Qy 154 DTAVEGEIEVNCCTAMASKPATIRWFKGN 183
Db 157 DTAVEGEIEVNCCTAMASKPATIRWFKGN 186

RESULT 7
Q6F3J3 ID Q6F3J3 PRELIMINARY; PRT; 428 AA.
AC Q6F3J3;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE RA175 isoform b.
GN Name=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB183400; BAD30019.1; -.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR007110; Ig-like.
DR SMART; SM00409; IGC2; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 428 AA; 46903 MW; B10DF1A2B893573 CRC64;

Query Match      33.9%; Score 150; DB 2; Length 428;
Best Local Similarity 100.0%; Pred. No. 1.4e-131; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

Qy 34 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPQRQTYFRDPRPLK 93
Db 37 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPQRQTYFRDPRPLK 96

Qy 94 DSRFQLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 153
Db 97 DSRFQLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 156

Qy 154 DTAVEGEIEVNCCTAMASKPATIRWFKGN 183
Db 157 DTAVEGEIEVNCCTAMASKPATIRWFKGN 186

RESULT 8
Q8K3T6 ID Q8K3T6 PRELIMINARY; PRT; 445 AA.
AC Q8K3T6;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)

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DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Synaptic cell adhesion molecule 1 (RA175 isoform c).
GN Name=igsf4a; Synonyms=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL;
RX MEDLINE=22192378; PubMed=12202822; DOI=10.1126/science.1072356;
RA Biederer T., Sara Y., Mozhayeva M., Atasoy D., Liu X., Kavalali E.T.,
RA Sudhof T.C.;
RT "SynCAM, a Synaptic Adhesion Molecule That Drives Synapse Assembly.";
RL Science 297:1525-1531(2002).
RN [2]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF539424; AAN01614.1; -.
DR EMBL; AB183399; BAD30018.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neuexin-like.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 445 AA; 48666 MW; 5B336F23F1877497 CRC64;

Query Match      33.9%; Score 150; DB 2; Length 445;
Best Local Similarity 100.0%; Pred. No. 1.4e-131; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

Qy 34 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPQRQTYFRDPRPLK 93
Db 37 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPQRQTYFRDPRPLK 96

Qy 94 DSRFQLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 153
Db 97 DSRFQLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 156

Qy 154 DTAVEGEIEVNCCTAMASKPATIRWFKGN 183
Db 157 DTAVEGEIEVNCCTAMASKPATIRWFKGN 186

RESULT 9
Q8R4L1 ID Q8R4L1 PRELIMINARY; PRT; 445 AA.
AC Q8R4L1;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Tumor suppressor in lung cancer 1.
GN Name=igsf4a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=129/SvJ;
RX MEDLINE=22226620; PubMed=12242005; DOI=10.1016/S0378-1119(02)00835-1;

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RA Fukami T., Satoh H., Fujita E., Maruyama T., Fukuhara H.,
RA Kuranochi M., Takamoto S., Momoi T., Murakami Y.,
RT "Identification of the Tslc1 gene, a mouse orthologue of the human
RL tumor suppressor TSLC1 gene.";
RT Gene 295:7-12(2002).
DR ENBL; AF434663; AAL86736.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 445 AA; 48664 MW; C5D5A070DAF70B55 CRC64;

Query Match 33.9%; Score 150; DB 2; Length 445;
Best Local Similarity 100.0%; Pred. No. 1.4e-131;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 93
DB |||||||
QY 37 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 96
DB |||||||
QY 94 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPESTYTTITVLVPPRNLMDIQK 153
DB |||||||
QY 97 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPESTYTTITVLVPPRNLMDIQK 156
DB |||||||
QY 154 DTAVEGEIEVNCNTAMASKPATIRWPKGN 183
DB |||||||
QY 157 DTAVEGEIEVNCNTAMASKPATIRWPKGN 186
DB |||||||

RESULT 10
Q8R5M8 PRELIMINARY; PRT; 456 AA.
AC Q8R5M8
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE RA175.
GN Name=Igsf4a; Synonyms=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RA175, which is the mouse ortholog of TSLC1, a tumor suppressor gene
RT in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:157-66(2003).
DR ENBL; AB064265; BAB83501.2; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 2.

QY 34 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 93
DB |||||||
QY 37 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 96
DB |||||||
QY 94 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPESTYTTITVLVPPRNLMDIQK 153
DB |||||||
QY 97 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPESTYTTITVLVPPRNLMDIQK 156
DB |||||||
QY 154 DTAVEGEIEVNCNTAMASKPATIRWPKGN 183
DB |||||||
QY 157 DTAVEGEIEVNCNTAMASKPATIRWPKGN 186
DB |||||||

RESULT 11
Q6AYPS PRELIMINARY; PRT; 476 AA.
AC Q6AYPS
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Hypothetical protein.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.P., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Donald M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX Director MGC Project;
RL Submitted (AUG-2004) to the EMBL/GenBank/DBJ databases.
DR ENBL; BC078966; AAH78966.1; -.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF00047; Ig; 3.
DR SMART; SM00409; IG; 3.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
KW Hypothetical protein.
SQ SEQUENCE 476 AA; 51853 MW; 4864A3D37082C8FE CRC64;

DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 456 AA; 49787 MW; 3226E866A4BC1C7F CRC64;

Query Match 33.9%; Score 150; DB 2; Length 456;
Best Local Similarity 100.0%; Pred. No. 1.4e-131;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 93
DB |||||||
QY 37 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 96
DB |||||||
QY 94 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPESTYTTITVLVPPRNLMDIQK 153
DB |||||||
QY 97 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPESTYTTITVLVPPRNLMDIQK 156
DB |||||||
QY 154 DTAVEGEIEVNCNTAMASKPATIRWPKGN 183
DB |||||||
QY 157 DTAVEGEIEVNCNTAMASKPATIRWPKGN 186
DB |||||||

RESULT 11
Q6AYPS PRELIMINARY; PRT; 476 AA.
AC Q6AYPS
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Hypothetical protein.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.P., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Donald M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX Director MGC Project;
RL Submitted (AUG-2004) to the EMBL/GenBank/DBJ databases.
DR ENBL; BC078966; AAH78966.1; -.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF00047; Ig; 3.
DR SMART; SM00409; IG; 3.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
KW Hypothetical protein.
SQ SEQUENCE 476 AA; 51853 MW; 4864A3D37082C8FE CRC64;

Query Match	33.9%;	Score 150;	DB 2;	Length 476;		
Best Local Similarity	100.0%;	Pred. No. 1.5e-131;				
Matches 150;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0		
Qy	34	SAAALIPTGDCQNLF	FTKDVTVIEGEVATIS	QVNVKSDSVIQLLNP	RQTTIYFRD	FRPLK 93
Db	37	SAAALIPTGDCQNLF	FTKDVTVIEGEVATIS	QVNVKSDSVIQLLNP	RQTTIYFRD	FRPLK 96
Qy	94	DSRFQLNFSSELK	VSLTNVSI	SDGEHYFCQLYTDP	PQESYTTITVL	VPPNLMIDIQK 153
Db	97	DSRFQLNFSSELK	VSLTNVSI	SDGEHYFCQLYTDP	PQESYTTITVL	VPPNLMIDIQK 156
Qy	154	DTAVEGEIEI	VNCTAMASK	PATTIRW	PKGN 183	
Db	157	DTAVEGEIEI	VNCTAMASK	PATTIRW	PKGN 186	

RESULT 12	Q9QYL3	PRELIMINARY;	PRT;	278 AA.
ID	Q9QYL3	PRELIMINARY;	PRT;	278 AA.
AC	Q9QYL3;			
DT	01-MAY-2000	(TEMBLrel. 13, Created)		
DT	01-MAY-2000	(TEMBLrel. 13, Last sequence update)		
DT	01-OCT-2003	(TEMBLrel. 25, Last annotation update)		
DE	Adhesion protein Ral75N.			
GN	Name=Igsf4a; Synonym=ral75n;			
OS	Mus musculus (Mouse)			
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
OC	NCBI_TaxId=10090;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RE	MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;			
RE	Fujita E., Soyama A., Momoi T.;			
RT	"Ral75, which is the mouse ortholog of TSLC1, a tumor suppressor gene			
RT	in human lung cancer, is a cell adhesion molecule.";			
RL	Exp. Cell Res. 287:57-66(2003).			
RD	EMBL; AB021967; BAA87917.1; -.			
DR	MED; MGI:1889272; Igsf4a.			
DR	GO; GO:0016021; C:integral to membrane; TAS.			
DR	GO; GO:0045202; C:synapse; IDA.			
DR	GO; GO:0008021; C:synaptic vesicle; IDA.			
DR	GO; GO:0005515; F:protein binding; IPI.			
DR	GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.			
DR	GO; GO:0007155; P:cell adhesion; IDA.			
DR	GO; GO:0007416; P:synaptogenesis; IDA.			
DR	InterPro; IPR007110; IG-like.			
DR	InterPro; IPR003598; IG c2.			
DR	InterPro; IPR003585; Neurexin-like.			
DR	Pfam; PF00047; igf, 1.			
DR	SMART; SM00294; 4.1m; 1.			
DR	SMART; SM00408; IGC2; 1.			
DR	PROSITE; PS50835; IG LIKE; 2.			
DR	SEQUENCE 278 AA; 30636 MW; A295F4DEA2724B04 CRC64;			

[illegible]


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DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein DKFZp686f1789 (Fragment).
GN Name=DKFZp686f1789;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC Tissue=Human retina;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Koehrer K., Beyer A., Mewes H.W., Weil B., Amid C., Osanger A.,
RA Fobo G., Han M., Wiemann S.;
RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BX641042; CA246024.1; -.
KW Hypothetical protein.
FT NON TER 1
FT NON TER 1
SQ SEQUENCE 84 AA; 8986 MW; D50A20AD25854087 CRC64;

Query Match 19.0%; Score 84; DB 2; Length 84;
Best Local Similarity 100.0%; Pred. No. 2.5e-70;
Matches 84; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 359 TDSRAGEGSGIRAVDHAVIGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADAA 418
DB 1 TDSRAGEGSGIRAVDHAVIGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADAA 60

QY 419 DADTAIINAEQGNSEKKEYFI 442
DB 61 DADTAIINAEQGNSEKKEYFI 84

RESULT 18
O61023 PRELIMINARY; PRT; 74 AA.
AC O61023;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-4;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CI-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036411; AAC14222.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 74
FT NON TER 74
SQ SEQUENCE 74 AA; 7743 MW; 734CC3763E21401 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 74;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
DB 59 PPTTTTTTTTTTTTTT 73

RESULT 19
O9TVF2 PRELIMINARY; PRT; 86 AA.
ID O9TVF2
AC O9TVF2;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
GN
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DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-12;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CI-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036436; AAC14240.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 86
FT NON TER 86
SQ SEQUENCE 86 AA; 8963 MW; 7AD26B22604E36A9 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
DB 71 PPTTTTTTTTTTTTTT 85

RESULT 20
O61058 PRELIMINARY; PRT; 98 AA.
ID O61058;
AC O61058;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-18;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CI-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036465; AAC14259.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 98
FT NON TER 98
SQ SEQUENCE 98 AA; 10158 MW; BE9146BAA3FD9520 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 1.4e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
DB 71 PPTTTTTTTTTTTTTT 85

RESULT 21
O61033 PRELIMINARY; PRT; 102 AA.
ID O61033;
AC O61033;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-11;
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OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CI-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
  genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036422; AAC14232.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 102
SQ SEQUENCE 102 AA; 10605 MW; E55212A8D1297B5A CRC64;

Query Match 3.4%; Score 15; DB 2; Length 102;
Best Local Similarity 100.0%; Pred. No. 1.4e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
Db 44 PPTTTTTTTTTTTT 58

RESULT 22
Q9XWNO PRELIMINARY; PRT; 108 AA.
AC Q9XWNO;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Hypothetical protein Y43F8C.9.
GN ORFNames=Y43F8C.9;
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RX MEDLINE=99069613; PubMed=9851916;
RA none;
RT "Genome sequence of the nematode C.elegans: A platform for
  investigating biology.";
RL Science 282:2012-2018(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RX MEDLINE=99069613; PubMed=9851916;
RA Ainscough R.;
RT Submitted (OCT-1998) to the EMBL/GenBank/DBJ databases.
RL EMBL; AL032837; CA21621.1; -.
DR PIR; T26880; T26880.
DR WormBase; WBGene00012831; Y43F8C.9.
DR WormPep; Y43F8C.9; CE21907.
KW Hypothetical protein.
SQ SEQUENCE 108 AA; 11733 MW; F72D37C2B7432602 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 108;
Best Local Similarity 100.0%; Pred. No. 1.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
Db 48 PPTTTTTTTTTTTT 62

RESULT 23
O61046 PRELIMINARY; PRT; 115 AA.
ID O61046
AC O61046;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
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DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DE Mucin-like protein.
GN Name=EMUCT-7;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CI-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
  genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036450; AAC14247.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 115 AA; 11729 MW; 321826F0FDEDEF0E CRC64;

Query Match 3.4%; Score 15; DB 2; Length 115;
Best Local Similarity 100.0%; Pred. No. 1.6e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
Db 43 PPTTTTTTTTTTTT 57

RESULT 24
Q6WAZ9 PRELIMINARY; PRT; 121 AA.
AC Q6WAZ9;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Noia J.M., Buscaglia C.A., Aguero F., Sanchez D.O.,
  Frasch A.C.C.;
RT "Differential accumulation of mutations localized in particular
  domains of the mucin genes expressed in the vertebrate host stage of
  Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 133:81-91(2004).
DR EMBL; AY298908; AAQ74639.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 121 AA; 12463 MW; 800A0E88DFF3AE59 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 1.6e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
Db 44 PPTTTTTTTTTTTT 58

RESULT 25
O15774 PRELIMINARY; PRT; 122 AA.
AC O15774;
DT 01-JAN-1998 (TrEMBLrel. 05, Created)
DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (fragment).
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
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OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=98324409; PubMed=9662032; DOI=10.1016/S0166-6851(98)00025-5;
RA Freitas-Junior L.H., Briones M.R., Schenkman S.;
RT "Two distinct groups of mucin-like genes are differentially expressed
in the developmental stages of Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 93:101-114 (1998).
DR EMBL; AF027872; AAC48350.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 122 122
SQ SEQUENCE 122 AA; 12500 MW; 47CDEF9BD43814FA CRC64;

Query Match 3.4%; Score 15; DB 2; Length 122;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
DB 42 PPTTTTTTTTTTTTTT 56

RESULT 26
O61025 PRELIMINARY; PRT; 125 AA.
AC O61025;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-9;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CI-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850 (1998).
DR EMBL; AF036413; AAC14224.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 125 AA; 12894 MW; 2DF1A14AA29A8604 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 125;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
DB 56 PPTTTTTTTTTTTTTT 70

RESULT 27
Q962W4 PRELIMINARY; PRT; 125 AA.
AC Q962W4;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein MUC-10c6.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CI-Brenner;
RA Di Noia J.M., Frasch A.C.C.;
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RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF398553; AAK94016.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 125 AA; 12870 MW; 2188F87FA6C71F07 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 125;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
DB 56 PPTTTTTTTTTTTTTT 70

RESULT 28
O61021 PRELIMINARY; PRT; 126 AA.
AC O61021;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-2;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CI-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850 (1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=CI-Brenner;
RA D'Orso I., Di Noia J.M.;
RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF036409; AAC14220.2; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 126 AA; 13023 MW; F3858008D3C768A1 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 126;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
DB 55 PPTTTTTTTTTTTTTT 69

RESULT 29
O61056 PRELIMINARY; PRT; 126 AA.
AC O61056;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCt-15;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CI-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions.";
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RL J. Biol. Chem. 273:10843-10850(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RA D'Orso I., Di Noia J.M.;
RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF036463; AAC14257.2; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 126 AA; 13049 MW; F399EC78D3C768A1 CRC64;

Query Match          3.4%; Score 15; DB 2; Length 126;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
Db 55 PPTTTTTTTTTTTTTT 69

RESULT 30
P90603
ID P90603 PRELIMINARY; PRT; 128 AA.
AC P90603;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE MUC.CL-1.
GN Name=MUC.CL-1;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C1 Brenner;
RX MEDLINE=97113006; PubMed=8943259; DOI=10.1074/jbc.271.50.32078;
RA Di Noia J.M., Pollevick G.D., Xavier M.T., Previato J.O.,
RA Mendoca-Previato L., Sanchez D.O., Frasch A.C.;
RT "High diversity in mucin genes and mucin molecules in Trypanosoma cruzi.";
RL J. Biol. Chem. 271:32078-32083(1996).
DR EMBL; U62530; AAC47402.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 128 AA; 13207 MW; 30ACB7C3F8E633B4 CRC64;

Query Match          3.4%; Score 15; DB 2; Length 128;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
Db 55 PPTTTTTTTTTTTTTT 69

RESULT 31
O61037
ID O61037 PRELIMINARY; PRT; 139 AA.
AC O61037;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-37p20;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of

RT genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036427; AAC14349.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14311 MW; 9236BB31B85992B7 CRC64;

Query Match          3.4%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
Db 70 PPTTTTTTTTTTTTTT 84

RESULT 32
P90601
ID P90601 PRELIMINARY; PRT; 139 AA.
AC P90601;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE MUC.Y-1 protein.
GN Name=MUC.Y-1;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=97113006; PubMed=8943259; DOI=10.1074/jbc.271.50.32078;
RA Di Noia J.M., Pollevick G.D., Xavier M.T., Previato J.O.,
RA Mendoca-Previato L., Sanchez D.O., Frasch A.C.;
RT "High diversity in mucin genes and mucin molecules in Trypanosoma cruzi.";
RL J. Biol. Chem. 271:32078-32083(1996).
DR EMBL; U59482; AAC47399.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14395 MW; D7DCECEB2FF8A26B CRC64;

Query Match          3.4%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
Db 68 PPTTTTTTTTTTTTTT 82

RESULT 33
Q6WAZ8
ID Q6WAZ8 PRELIMINARY; PRT; 139 AA.
AC Q6WAZ8;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Noia J.M., Buscaglia C.A., Aguero F., Sanchez D.O.,
RA Frasch A.C.C.;
RT "Differential accumulation of mutations localized in particular
RT domains of the mucin genes expressed in the vertebrate host stage of
RT Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 133:81-91(2004).
DR EMBL; AY298908; AAQ74640.1; -.
DR InterPro; IPR000458; Tryp_mucin.
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DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14277 MW; 79A799908014DD21 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTTTTTTTTTTTT 353
Db 71 PPTTTTTTTTTTTTTT 85

RESULT 34
Q962W5 PRELIMINARY; PRT; 140 AA.
AC Q962W5;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein MUC-loc5.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RA Di Nola J.M., Frasch A.C.C.;
RL EMBL; AF398552; AAK94015.1; -
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 140 AA; 14343 MW; 5CC154418F2A58CA CRC64;

Query Match 3.4%; Score 15; DB 2; Length 140;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTTTTTTTTTTTT 353
Db 72 PPTTTTTTTTTTTTTT 86

RESULT 35
Q15776 PRELIMINARY; PRT; 143 AA.
AC Q15776;
DT 01-JAN-1998 (TrEMBLrel. 05, Created)
DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=98324409; PubMed=9662032; DOI=10.1016/S0166-6851(98)00025-5;
RA Freitas-Junior L.H., Briones M.R., Schenkman S.;
RT "Two distinct groups of mucin-like genes are differentially expressed in the developmental stages of Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 93:101-114(1998).
DR EMBL; AF027874; AAC48352.1; -
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 143
SQ SEQUENCE 143 AA; 14610 MW; 6AB6E7B7FA85F58B CRC64;

Query Match 3.4%; Score 15; DB 2; Length 143;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTTTTTTTTTTTT 353
Db 71 PPTTTTTTTTTTTTTT 85

RESULT 36
Q61019 PRELIMINARY; PRT; 148 AA.
AC Q61019;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-1;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Nola J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036407; AAC14218.1; -
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 148 AA; 15212 MW; ABF2E02CF13EA059 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 148;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTTTTTTTTTTTT 353
Db 68 PPTTTTTTTTTTTTTT 82

RESULT 37
Q6WB00 PRELIMINARY; PRT; 148 AA.
AC Q6WB00;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Nola J.M., Buscaglia C.A., Aguero F., Sanchez D.O.,
RA Frasch A.C.C.;
RT "Differential accumulation of mutations localized in particular domains of the mucin genes expressed in the vertebrate host stage of Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 133:81-91(2004).
DR EMBL; AY298308; AAQ74638.1; -
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 148 AA; 15203 MW; C7F2E02CF13554B6 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 148;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTTTTTTTTTTTT 353
Db 68 PPTTTTTTTTTTTTTT 82

RESULT 38
Q25334
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ID Q25334 PRELIMINARY; PRT; 327 AA.
AC Q25334;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Surface antigen P2 (Fragment).
OS Leishmania major.
OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Leishmania.
OX NCBI_TaxID=5664;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=V121;
RX MEDLINE=92105105; PubMed=1761547;
RA Murray P.J., Spithill T.W.;
RT "Variants of a Leishmania surface antigen derived from a multigenic
RT family.";
RL J. Biol. Chem. 266:24477-24484 (1991).
DR EMBL; X57135; CAA0414.1; -.
DR F1R; S20074; S20074.
DR InterPro; IPR009030; Grow_fac_recept.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR007090; LRR_plant.
DR Pfam; PF00560; LRR_1; 3.
DR SMART; SM00181; EGF; 1.
FT NON TER 1
SQ SEQUENCE 327 AA; 34229 MW; 2571B35B6577E715 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 327;
Best Local Similarity 100.0%; Pred. No. 3.8e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
DB 183 PPTTTTTTTTTTTT 197

RESULT 39
Q86A81 PRELIMINARY; PRT; 648 AA.
AC Q86A81;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Mus musculus (Mouse). 12 days embryo head cDNA, RIKEN full-
DE length enriched library, clone:300008H23 product:hypothetical Acyl-
DE CoA dehydrogenase/Glutamic acid-rich region containing protein, full
DE insert sequence.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetoza; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tünggel B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC115594; AAC05137.1; -.
DR GO; GO:0016301; F:kinase activity; IEA.
KW Kinase.
SQ SEQUENCE 648 AA; 73372 MW; 2879FE40FCD76D3E CRC64;

Query Match 3.4%; Score 15; DB 2; Length 648;
Best Local Similarity 100.0%; Pred. No. 3.8e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Best Local Similarity 100.0%; Pred. No. 6.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 338 PPTTTTTTTTTTTT 352
DB 130 PPTTTTTTTTTTTT 144

RESULT 40
Q86AG0 PRELIMINARY; PRT; 1015 AA.
ID Q86AG0;
AC Q86AG0;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Dictyostelium discoideum (Slime mold). Histidine kinase
DE DnKc.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetoza; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tünggel B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC115594; AAC05137.1; -.
DR GO; GO:0016301; F:kinase activity; IEA.
KW Kinase.
SQ SEQUENCE 1015 AA; 116816 MW; 58CF6693543381A8 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 1015;
Best Local Similarity 100.0%; Pred. No. 0.0001;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 338 PPTTTTTTTTTTTT 352
DB 552 PPTTTTTTTTTTTT 566

RESULT 41
Q6TUI3 PRELIMINARY; PRT; 58 AA.
ID Q6TUI3;
AC Q6TUI3;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE LRGR700061.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=101116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RA Xu C.S., Chang C.F., Han H.P., Wang G.P., Chai L.O., Yuan J.Y.,
RA Yang K.J., Zhao L.F., Ma H., Wang L., Wang S.F., Xing X.K., Shen G.M.,
RA Shi J.B., Rahman S., Wang Q.N., Zhang J.B.;
RL Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY387047; AAQ91017.1; -.
SQ SEQUENCE 58 AA; 6466 MW; DEA36599EB327F47 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 58;
Best Local Similarity 100.0%; Pred. No. 7.6e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 341 TTTT TTTT TTTT TTTT TTTT 354
Db 34 TTTT TTTT TTTT TTTT TTTT 47

RESULT 42
O61050 PRELIMINARY; PRT; 107 AA.
AC O61050;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUC-9;
OS Trypanosoma cruzi.
OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=9825151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Nola J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT genes having hypervariable regions";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036454; AAC14251.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TPR 107
FT SEQUENCE 107 AA; 10986 MW; 26E2947FD6EB06D2 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 107;
Best Local Similarity 100.0%; Pred. No. 0.00013;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTT TTTT TTTT TTTT TTTT 352
Db 53 PPTTT TTTT TTTT TTTT TTTT 66

RESULT 43
O962W6 PRELIMINARY; PRT; 216 AA.
AC O962W6;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein MUC-loc2.
OS Trypanosoma cruzi.
OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RA Di Nola J.M., Frasch A.C.C.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF398551; AAK94014.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TPR 216 AA; 21815 MW; 01C85738541BB6C6 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 216;
Best Local Similarity 100.0%; Pred. No. 0.00023;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTT TTTT TTTT TTTT TTTT 353
Db 158 PTTT TTTT TTTT TTTT TTTT 171

RESULT 44
YOOB CAEEL STANDARD; PRT; 304 AA.
Q9300;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Hypothetical protein EED8.11 in chromosome II precursor.
GN ORFNames=EED8.11;
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditidae;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RX MEDLINE=99089613; PubMed=9851916;
RT The C. elegans sequencing consortium;
RT "Genome sequence of the nematode C. elegans: a platform for
RT investigating biology.";
RL Science 282:2012-2018(1998).
CC -!- SIMILARITY: Some, to C.elegans R13F6.2 and R13F6.8.

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EMBL; U23484; AAC46771.1; -.
PIR; T15922; T15922.139; EED8.11.
Wormbase; WBGene00017139; EED8.11.
DR Wormpep; EED8.11; CE01884.
DR InterPro; IPR001304; Lectin_C.
DR SMART; SM00034; CLECT; 1.
KW Hypothetical protein; Signal.
FT SIGNAL 1 19 Potential.
FT CHAIN 20 304 Hypothetical protein EED8.11.
FT DOMAIN 64 92 Poly-Thr.
FT SEQUENCE 304 AA; 32982 MW; 60C223B88F534151 CRC64;

Query Match 3.2%; Score 14; DB 1; Length 304;
Best Local Similarity 100.0%; Pred. No. 0.00031;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTT TTTT TTTT TTTT TTTT 353
Db 67 PTTT TTTT TTTT TTTT TTTT 80

RESULT 45
Q8IMS9 PRELIMINARY; PRT; 341 AA.
ID Q8IMS9;
AC Q8IMS9;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE CG31439-PA.
GN ORFNames=CG31439;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Vandal M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,

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RA Abril J.F., Agbayani A., An H.J., Andrews-Pfannkuch C., Baldwin D.,
RA Balow R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA De Pablo B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Foslter C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Laoko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarri C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskaas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wassarman D.A., Weinstock G.M., Weissbach J.,
RA Williams S.M., Woodruff, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RA "The genome sequence of *Drosophila melanogaster*.";
RL Science 287:2185-2195(2000).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426065; PubMed=12537558;
RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R.,
RA Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Svirskaas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstock G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RA "Finishing a whole-genome shotgun: Release 3 of the *Drosophila*
RA melanogaster euchromatic genome sequence.";
RL Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426070; PubMed=12537573;
RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Svirskaas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RA "The transposable elements of the *Drosophila melanogaster* euchromatin:
RA a genomic perspective.";
RL Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426069; PubMed=12537572;
RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
RA Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RA "Annotation of the *Drosophila melanogaster* euchromatic genome: a
RA systematic review.";
RL Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
RN [5]
RP SEQUENCE FROM N.A.
RX FlyBase;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RN [6]
RP SEQUENCE FROM N.A.
RX FlyBase;

RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AE003751; AAN14054.1; --
DR FlyBase; FBgn0051439; CG31439.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008061; P:chitin binding; IEA.
DR GO; GO:0006030; P:chitin metabolism; IEA.
DR InterPro; IPR002557; Chitin bind PerA.
DR InterPro; IPR002125; dCMP/cyt_deam.
DR Pfam; PF01607; CBM 14; 1.
DR SMART; SM00494; CHEBD2; 1.
DR PROSITE; PS00940; CHIT_BIND_II; 1.
DR PROSITE; PS00903; CYT_DCMP_DEAMINASES; UNKNOWN 1.
SQ SEQUENCE 341 AA; 38627 MW; A935A06377885A15 CRC64;
Query Match 3.2%; Score 14; DB 2; Length 341;
Best Local Similarity 100.0%; Pred. No. 0.00034;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 340 PTTTTTTTTTTTTT 353
DB 170 PTTTTTTTTTTTTT 183
RESULT 46
Q7Q1R0 PRELIMINARY; PRT; 350 AA.
AC Q7Q1R0;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE AgCP8129 (Fragment).
GN Name=agCG53199; ORFNames=ENGANGG00000007781;
OS Anopheles gambiae str. PEST.
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.
OX NCBI_TaxID=180454;
RN [1]
RC STRAIN=PEST.
RA Anopheles Genome Sequencing Consortium;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AAB01008980; EAA14126.1; --
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR002000; Lamp.
DR PRINTS; PR00336; LYSASSOCTDMP.
DR PROSITE; PS00310; LAMP_1; UNKNOWN 1.
FT NON TER 1
SQ SEQUENCE 350 AA; 37565 MW; F4765CEF710FA9A0 CRC64;
Query Match 3.2%; Score 14; DB 2; Length 350;
Best Local Similarity 100.0%; Pred. No. 0.00035;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 340 PTTTTTTTTTTTTT 353
DB 79 PTTTTTTTTTTTTT 92
RESULT 47
Q7P221 PRELIMINARY; PRT; 356 AA.
AC Q7P221;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE AgCP9900 (Fragment).
GN Name=agCG52059; ORFNames=ENGANGG00000015451;
OS Anopheles gambiae str. PEST.
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.

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OX NCBI_TaxID=180454;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=PEST;
RA Anopheles Genome Sequencing Consortium;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AAB01008986; EAA00798.1; -.
FT NON TER 1 1
FT NON TER 356 356
SQ SEQUENCE 356 AA; 39404 MW; C51B095A700DEC22 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 356;
Best Local Similarity 100.0%; Pred. No. 0.00036;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTTTT 353
Db 316 PTTTTTTTTTTTTT 329

RESULT 48
Q7S2P4 PRELIMINARY; PRT; 364 AA.
AC Q7S2P4
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DE Hypothetical protein.
GN Name=NCU09343.1;
OS Neurospora crassa.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
OX NCBI_TaxID=5141;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=OR74A;
RA Galagan J.E., Calvo S.E., Borkovich K.A., Selker E.U., Read N.D.,
RA Jaffe D., FitzHugh W., Ma L.-J., Smirnov S., Purcell S., Rehman B.,
RA Elkins T., Engels R., Wang S., Nielsen C.B., Butler J., Endrizzi M.,
RA Qui D., Tanakiev P., Pedersen D., Nelson M., Washburne M.,
RA Selitrenikoff C.P., Kinsey J.A., Braun E.L., Zelter A., Schulte U.,
RA Roy A., Foley K., Mewes W., Staben C., Marcotte E., Greenberg D.,
RA Kamal M., Kanvyselis M., Mauceli E., Bielke C., Rudd S., Frishman D.,
RA Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S.,
RA Cogoni C., Macino G., Catcheside D., Li W., Pratt R.J., Osmani S.A.,
RA Desouza C.C., Glass L., Orbach M.J., Berglund J., Voelker R.,
RA Yarden O., Plamann M., Seiler S., Dunlap J., Radford A., Aramayo R.,
RA Natvig D.O., Alex L.A., Mannheim G., Ebbole D.J., Freitag M.,
RA Paulsen I., Sachs M.S., Lander E.S., Nusbaum C., Birren B.;
RT "The Genome Sequence of the Filamentous Fungus Neurospora crassa."
RL Nature 0:0-0(2003).
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AABX01000420; EAA29686.1; -.
DR InterPro; IPR008547; DUF829.
DR Pfam; PF05705; DUF829; 1.
KW Hypothetical protein.
SQ SEQUENCE 364 AA; 40946 MW; EC1DF588FE543738 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 364;
Best Local Similarity 100.0%; Pred. No. 0.00036;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTTTT 353
Db 38 PTTTTTTTTTTTTT 51

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RESULT 49
Q869R5 PRELIMINARY; PRT; 365 AA.
ID Q869R5
AC Q869R5
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Dictyostelium discoideum (Slime mold). Histidine
DE kinase.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA MDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Turgall B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum."
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC116957; AAO52509.1; -.
DR GO; GO:0016301; P:Kinase activity; IEA.
KW Kinase.
SQ SEQUENCE 365 AA; 39409 MW; 132DEB0383959196 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 365;
Best Local Similarity 100.0%; Pred. No. 0.00037;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTTTT 353
Db 266 PTTTTTTTTTTTTT 279

RESULT 50
Q7Q956 PRELIMINARY; PRT; 445 AA.
ID Q7Q956
AC Q7Q956
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE AGCP4397 (Fragment).
GN Name=agCG50324; ORFNames=ENSANG000000010153;
OS Anopheles gambiae str. PEST.
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoides; Anopheles.
OX NCBI_TaxID=180454;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=PEST;
RA Anopheles Genome Sequencing Consortium;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
CC -!- SIMILARITY: Belongs to peptidase family S1.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AAB01008905; EAA09700.1; -.
DR HSSP; P08709; 1JBU.
DR GO; GO:0004263; F:chymotrypsin activity; IEA.
DR GO; GO:0008233; F:peptidase activity; IEA.
DR GO; GO:0004295; F:trypsin activity; IEA.
DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001254; Peptidase S1.
DR InterPro; IPR001314; Peptidase S1A.
DR InterPro; IPR009003; Pept_Ser_Cys.
DR Pfam; PF00089; Trypsin; 1.
DR PRINTS; PR00722; CHYMOTRYPSIN.

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DR PROSITE; PS50240; TRYPSIN_DOM; 1.
DR PROSITE; PS00134; TRYPSIN_HIS; UNKNOWN_1.
KW Hydrolase; Protease; Serine protease.
FT NON TER 1
SQ SEQUENCE 445 AA; 4897 MW; 48A34474F5414364 CRC64;

Query Match          3.2%; Score 14; DB 2; Length 445;
Best Local Similarity 100.0%; Pred. No. 0.00043;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 125 PTTTTTTTTTTTTT 138

RESULT 51
WR33_ARATH ID WR33_ARATH STANDARD; PRT; 512 AA.
AC Q8S8P5;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Probable WRKY transcription factor 33 (WRKY DNA-binding protein 33).
GN Name=WRKY33; OrderedLocNames=At2g38470; ORFNames=T19C21.4;
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
OC eurosid II; Brassicales; Brassicaceae; Arabidopsis.
OX NCBI_TaxID=3702;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia; TISSUE=Flower;
RA Lippok B., Somsaich I.E.;
RT "Arabidopsis thaliana transcription factor WRKY33."
RL Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.
[2]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia;
RX MEDLINE=20083487; PubMed=10617197; DOI=10.1038/45471;
RA Lin X., Kaul S., Rounsley S.D., Shea T.P., Benito M.-I., Town C.D.,
RA Fujii C.X., Mason T.M., Bowman C.L., Barnstead M.E., Feldblyum T.V.,
RA Buell C.R., Ketchum K.A., Lee J.J., Ronning C.M., Koo H.L.,
RA Moffat K.S., Cronin L.A., Shen M., Pai G., Van Aken S., Umayam L.,
RA Tallon L.J., Gill J.E., Adams M.D., Carrera A.J., Creasy T.H.,
RA Goodman H.M., Somerville C.R., Copenhaver G.P., Preuss D.,
RA Nierman W.C., White O., Eisen J.A., Salzberg S.L., Fraser C.M.,
RA Venter J.C.;
RT "Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana."
RL Nature 402:761-768(1999).
CC -1- FUNCTION: Transcription factor. Interacts specifically with the W box (5'-(T)TGAC(C/T)-3'), a frequently occurring elicitor-responsive cis-acting element (By similarity).
CC -1- SUBCELLULAR LOCATION: Nuclear (Probable).
CC -1- SIMILARITY: Belongs to the WRKY group I family.
CC -1- SIMILARITY: Contains 2 WRKY domains.
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CC EMBL; AF509499; AAM34736.1; -.
CC EMBL; AC004683; AAM14994.1; -.
DR PIR; T02498; T02498.
DR InterPro; IPR003657; WRKY.
DR Pfam; PF03106; WRKY 2.
DR PROSITE; PS50811; WRKY 2.
KW DNA-binding; Nuclear protein; Repeat; Transcription regulation.
FT DOMAIN 123 135 Thr-rich.
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FT DNA_BIND 171 235 WRKY 1.
FT DNA_BIND 349 414 WRKY 2.
FT DOMAIN 461 481 Asn-rich.
SQ SEQUENCE 512 AA; 56457 MW; 8F19CBB41BC18662 CRC64;

Query Match          3.2%; Score 14; DB 1; Length 512;
Best Local Similarity 100.0%; Pred. No. 0.00049;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 122 PTTTTTTTTTTTTT 135

RESULT 52
1A1C_DIAA ID 1A1C_DIAA STANDARD; PRT; 517 AA.
AC P27486;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE 1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) (ACC synthase) (S-adenosyl-L-methionine methylthioadenosine-lyase).
GN Name=ACS2; Synonyms=CARACC;
OS Dianthus caryophyllus (Carnation) (Clove pink).
OC Eukaryota; Viridiplantae; Streptophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
OC Caryophyllales; Caryophyllaceae; Dianthus.
OX NCBI_TaxID=3570;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Petal;
RX MEDLINE=92119258; PubMed=1731995;
RA Park K.Y., Drory A., Woodson W.R.;
RT "Molecular cloning of an 1-aminocyclopropane-1-carboxylate synthase from senescing carnation flower petals."
RL Plant Mol. Biol. 18:377-386(1992).
CC -1- FUNCTION: Catalyzes the formation of 1-aminocyclopropane-1-carboxylate, a direct precursor of ethylene in higher plants.
CC -1- CATALYTIC ACTIVITY: S-adenosyl-L-methionine = 1-aminocyclopropane-1-carboxylate + methylthioadenosine.
CC -1- COFACTOR: Pyridoxal phosphate.
CC -1- PATHWAY: Ethylene biosynthesis; first (rate-limiting) step.
CC -1- SUBUNIT: Homodimer.
CC -1- SIMILARITY: Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family.
-----
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-----
CC EMBL; M56619; AAA33275.1; -.
CC PIR; S19252; S19252.
DR HSP; P18485; I1AX.
DR InterPro; IPR001176; ACC synthase.
DR InterPro; IPR004839; Aminotransf_1/11.
DR InterPro; IPR004838; NHtransf_1_BS.
DR Pfam; PF00155; Aminotran_1_2; 1.
DR PRINTS; PR00753; ACCSYNTHASE.
DR PROSITE; PS00105; AA TRANSFER CLASS 1; 1.
KW Ethylene biosynthesis; Fruit ripening; Lyase; Multigene family;
KW Pyridoxal phosphate.
FT BINDING 277 277 Pyridoxal phosphate (By similarity).
FT DOMAIN 453 470 Poly-Thr.
SQ SEQUENCE 517 AA; 58057 MW; C31BA10732E940AE CRC64;

Query Match          3.2%; Score 14; DB 1; Length 517;
Best Local Similarity 100.0%; Pred. No. 0.00049;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```


Qy 341 TTTTTTTTTTTTTT 354
 Db 458 TTTTTTTTTTTTTT 471

RESULT 53
 Q43753 PRELIMINARY; PRT; 518 AA.
 ID Q43753
 AC Q43753
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE 1-aminocyclopropane 1-carboxylate synthase (EC 4.4.1.14).
 OS Dianthus caryophyllus (Carnation) (Clove pink).
 OC Eukaryota; Viridiplantae; Streptophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 OC Caryophyllales; Caryophyllaceae; Dianthus.
 OX NCBI_TaxID=3570;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Petal;
 RA Michael M.Z.;
 RL Submitted (DEC-1992) to the EMBL/GenBank/DBJ databases.
 DR EMBL: Z18952; CAA79477.1; -;
 DR PIR: S31442; S31442.
 DR HSP; P18485; IIA.
 DR GO: GO:0016847; F:1-aminocyclopropane-1-carboxylate synthase . . . ; IEA.
 DR GO: GO:0016829; F:lyase activity; IEA.
 DR GO: GO:0008483; F:transaminase activity; IEA.
 DR GO: GO:0009058; F:biogenesis; IEA.
 DR InterPro: IPR001176; ACC-synthase.
 DR InterPro: IPR004839; Aminotransf. I/II.
 DR InterPro: IPR004838; Nitransf. I/BS.
 DR Pfam: PF00165; Aminotransf. 1.2; 1.
 DR PRINTS: PR00753; ACCSYNTHASE.
 DR PROSITE: PS00105; AA_TRANSFER_CLASS_1; 1.
 KW Lyase.
 SQ SEQUENCE 518 AA; 58003 MW; EF8B8BC8F03A493E CRC64;

Query Match 3.2%; Score 14; DB 2; Length 518;
 Best Local Similarity 100.0%; Pred. No. 0.00049;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTTTT 354
 Db 459 TTTTTTTTTTTTTT 472

RESULT 54
 Q7YYYO PRELIMINARY; PRT; 667 AA.
 ID Q7YYYO
 AC Q7YYYO
 DT 01-OCT-2003 (TrEMBLrel. 25, Created)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Hypothetical protein.
 GN ORFNames=IMB_826;
 OS Cryptosporidium parvum.
 OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;
 OC Cryptosporidiidae; Cryptosporidium.
 OX NCBI_TaxID=5807;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Bankier A.T., Spriggs H.F., Fartmann B., Konfortov B.A., Madera M.,
 RA Vogel C., Teichmann S.A., Ivens A., Dear P.H.;
 RT "Integrated mapping, chromosomal sequencing and sequence analysis of
 RT Cryptosporidium parvum."
 RL Genome Res. 0:0-0(2003).
 DR ENBL: BX538353; CAD98350.1; -;
 DR InterPro: IPR000458; TYP_mucin.
 DR Pfam: PF01456; Mucin; 1.
 KW Hypothetical protein.

SQ SEQUENCE 667 AA; 73337 MW; 92F583112C839992 CRC64;
 Query Match 3.2%; Score 14; DB 2; Length 667;
 Best Local Similarity 100.0%; Pred. No. 0.00061;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 TTTTTTTTTTTTTT 353
 Db 541 TTTTTTTTTTTTTT 554

RESULT 55
 Q8ULH5 PRELIMINARY; PRT; 717 AA.
 ID Q8ULH5
 AC Q8ULH5
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Putative chitinase
 GN OrderedLocNames=PF1233;
 OS Pyrococcus furiosus.
 OC Archaea; Euryarchaeota; Thermococci; Thermococcaceae;
 OC Pyrococcus.
 OX NCBI_TaxID=2261;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Vc1 / DSM 3638 / ATCC 43597 / JCM 9422;
 RA Weiss R.B., Dunn D.M., Robb F.T., Brown J.R.;
 RT "The complete sequence of the Pyrococcus furiosus genome."
 RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AE010230; AAL81357.1; -;
 DR HSP; Q13231; ILG2.
 DR GO: GO:0016787; F:hydrolase activity; IEA.
 DR GO: GO:0004553; F:hydrolase activity, hydrolyzing O-glycosyl . . . ; IEA.
 DR GO: GO:0005975; P:carbohydrate metabolism; IEA.
 DR GO: GO:0008152; P:metabolism; IEA.
 DR Pfam: PF00553; CBM_2; 1.
 DR Pfam: PF00704; Glyco_Hydro_18; 1.
 DR SMART: SM00637; CBD_II; 1.
 KW Complete proteome.
 SQ SEQUENCE 717 AA; 78635 MW; FBCB55B9C850E38B CRC64;

Query Match 3.2%; Score 14; DB 2; Length 717;
 Best Local Similarity 100.0%; Pred. No. 0.00065;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 TTTTTTTTTTTTTT 353
 Db 235 TTTTTTTTTTTTTT 248

RESULT 56
 Q9V515 PRELIMINARY; PRT; 746 AA.
 ID Q9V515
 AC Q9V515
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE CG8181-PA.
 GN ORFNames=CG8181;
 OS Drosophila melanogaster (Fruit fly).
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 OC Ephydroidea; Drosophilidae; Drosophila.
 OX NCBI_TaxID=7227;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
 RA Adams M.D., Celnik S.E., Holt R.A., Evans C.A., Gocayne J.D.,
 RA Ananides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
 RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
 RA Brandon R.C., Rogers Y.H., Blaise R.G., Champe M., Pfeiffer B.D.,

RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
 RA Abril J.P., Agbayani A., An H.J., Andrews-Pfankoch C., Baldwin D.,
 RA Ballew R.M., Baou A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
 RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolehakov S.,
 RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brotter P.,
 RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
 RA Cherry J.M., Cawley S., Dahle C., Davenport L.B., Davies P.,
 RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
 RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
 RA Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
 RA Foster C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
 RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
 RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
 RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
 RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
 RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
 RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Pacleb J.M.,
 RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
 RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
 RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
 RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
 RA Wang Z.Y., Wasserman D.A., Weinstein G.M., Weissenbach J.,
 RA Williams S.M., Woodgett, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
 RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zhou L.,
 RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Smith H.O.,
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
 RA "The genome sequence of *Drosophila melanogaster*.";
 RA Science 287:2185-2195(2000).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22426065; PubMed=12537568;
 RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
 RA Patel S., Adams M., Champe M., Dugan S.P., Frise E.E., Hodgson A.,
 RA George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R.,
 RA Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
 RA Svirskas R., Tabor P.E., Wan K., Scapleton M., Sutton G.G., Venter C.,
 RA Weinstein G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
 RT "Finishing a whole-genome shotgun: Release 3 of the *Drosophila*
 RT melanogaster euchromatic genome sequence.";
 RL Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22426070; PubMed=12537573;
 RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Svirskas R.,
 RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
 RA Ashburner M., Celniker S.E.;
 RT "The transposable elements of the *Drosophila melanogaster* euchromatin:
 RT a genomic perspective.";
 RL Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
 RN [4]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22426069; PubMed=12537572;
 RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
 RA Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
 RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
 RA Battencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
 RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
 RA Scapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
 RA Lewis S.E.;
 RT "Annotation of the *Drosophila melanogaster* euchromatic genome: a
 RT systematic review.";
 RL Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
 RN [5]
 RP SEQUENCE FROM N.A.
 RG FLYBase;
 RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
 RN [6]
 RP SEQUENCE FROM N.A.

RG FLYBase;
 RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AB003835; AAF59007.1; -;
 DR FLYBase: FBgn0033361; CG8181.
 SQ SEQUENCE 746 AA; 78593 MW; FB6F9F8DA3027334 CRC64;
 Query Match 3.2%; Score 14; DB 2; Length 746;
 Best Local Similarity 100.0%; Pred. No. 0.00067;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 340 PTTTTTTTTTTTTT 353
 DB 435 PTTTTTTTTTTTTT 448
 RESULT 57
 Q23916 PRELIMINARY; PRT; 860 AA.
 AC Q23916;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Hypothetical protein mkcA.
 GN Names=mkcA;
 OS Dictyostelium discoideum (Slime mold).
 OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
 OX NCBI_TaxID=44689;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=97140317; PubMed=8986798; DOI=10.1073/pnas.93.26.15260;
 RA Shaulsky G., Escalante R., Loomis W.F.;
 RT "Developmental signal transduction pathways uncovered by genetic
 RT suppressors.";
 RL Proc. Natl. Acad. Sci. U.S.A. 93:15260-15265(1996).
 DR EMBL: U60169; AAB03507.1; -;
 DR HSSP: Q13153; 1F3M.
 DR DictyBase; DDB0191179; mkcA.
 DR GO: GO:0005524; F:ATP binding; IEA.
 DR GO: GO:0004674; F:protein serine/threonine kinase activity; IEA.
 DR GO: GO:0004713; F:protein-tyrosine kinase activity; IEA.
 DR GO: GO:0016740; F:transferase activity; IEA.
 DR GO: GO:0006468; F:protein amino acid phosphorylation; IEA.
 DR InterPro: IPR0011009; Kinase like.
 DR InterPro: IPR000719; Prot kinase.
 DR InterPro: IPR002290; Ser Thr kinase.
 DR InterPro: IPR008271; Ser Thr_pkin_AS.
 DR Pfam: PF00069; Pkinase; 1.
 DR PRINTS: PR00109; TYRKINASE.
 DR ProDom: PD000001; Prot kinase; 1.
 DR SMART: SM00220; S_TKC_1.
 DR PROSITE: PS00107; PROTEIN_KINASE_ATP; UNKNOWN_1.
 DR PROSITE: PS00111; PROTEIN_KINASE_DOM; 1.
 DR PROSITE: PS00108; PROTEIN_KINASE_ST; UNKNOWN_1.
 KW ATP-binding; Hypothetical protein; Kinase; Transferase.
 SQ SEQUENCE 860 AA; 97812 MW; 20AED8C81826DC21 CRC64;
 Query Match 3.2%; Score 14; DB 2; Length 860;
 Best Local Similarity 100.0%; Pred. No. 0.00076;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 339 PTTTTTTTTTTTTT 352
 DB 268 PTTTTTTTTTTTTT 281
 RESULT 58
 Q26257 PRELIMINARY; PRT; 872 AA.
 AC Q26257;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)

DE Rep protein.
GN Name=REP;
OS Dictyostelium giganteum.
OG Plasmid Ddp1.
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=5787;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=DG61;
RX MEDLINE=98139494; PubMed=9472083;
RA Shamat I.M., Gonzales C., Welker D.L.;
RT "Dictyostelium discoideum nuclear plasmid Ddp6 is a new member of the
RT Ddp2 plasmid family.";
RL Curr. Genet. 33:77-82(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=DG61;
RX MEDLINE=99189343; PubMed=10087212; DOI=10.1006/plas.1998.1385;
RA Gonzales C.M., Spencer T.D., Pendley S.S., Welker D.L.;
RT "Dgp1 and Dfp1 are closely related plasmids in the Dictyostelium Ddp2
RT plasmid family.";
RL Plasmid 41:89-96(1999).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=DG61;
RX MEDLINE=92390516;
RA Yin Y., Welker D.L.;
RT "Dictyostelium giganteum plasmid Dgp1 is a member of the Ddp2 plasmid
RT family.";
RL Plasmid 28:37-45(1992).
DR EMBL; U94491; AAC33153.1; -.
DR PIR; PQ0444; PQ0444.
DR InterPro; IPR007778; Dict_REP.
DR Pfam; PF05086; Dicty_REP; 1.
KW Plasmid.
SQ SEQUENCE 872 AA; 101038 MW; A98F6817567CDF3B CRC64;

Query Match 3.2%; Score 14; DB 2; Length 872;
Best Local Similarity 100.0%; Pred. No. 0.00077;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 259 PTTTTTTTTTTTTT 272

RESULT 59
ID O76535 PRELIMINARY; PRT; 874 AA.
AC O76535;
DT 01-NOV-1998 (TrEMBLrel. 08, Created)
DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Rep protein.
GN Name=rep;
OS Dictyostelium firmibasis.
OG Plasmid Dfp1.
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=79012;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CR II 2B;
RX MEDLINE=99189343; PubMed=10087212; DOI=10.1006/plas.1998.1385;
RA Gonzales C.M., Spencer T.D., Pendley S.S., Welker D.L.;
RT "Dgp1 and Dfp1 are closely related plasmids in the Dictyostelium Ddp2
RT plasmid family.";
RL Plasmid 41:89-96(1999).
DR EMBL; AF076279; AAC33156.1; -.
DR InterPro; IPR007778; Dict_REP.
DR Pfam; PF05086; Dicty_REP; 1.
KW Plasmid.
SQ SEQUENCE 874 AA; 100695 MW; CC632152A4C09B1D CRC64;

Query Match 3.2%; Score 14; DB 2; Length 874;
Best Local Similarity 100.0%; Pred. No. 0.00077;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 259 PTTTTTTTTTTTTT 272

RESULT 60
ID Q23913 PRELIMINARY; PRT; 887 AA.
AC Q23913;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Rep protein.
GN Name=rep;
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=WS380B;
RX MEDLINE=91172902; PubMed=2077544;
RA Slade M.B., Chang A.C.M., Williams K.L.;
RT "The sequence and organisation of ddp2, a high copy number plasmid of
RT Dictyostelium discoideum.";
RL Plasmid 24:195-207(1990).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=WS380B;
RX MEDLINE=91172903; PubMed=2077545;
RA Chang A.C.M., Slade M.B., Williams K.L.;
RT "Identification of the origin of replication of the eukaryote
RT Dictyostelium discoideum nuclear plasmid Ddp2.";
RL Plasmid 24:208-217(1990).
DR EMBL; X51478; CAA35843.1; -.
DR DictyBase; DDB0001833; Ddp2-rep.
DR InterPro; IPR007778; Dict_REP.
DR Pfam; PF05086; Dicty_REP; 1.
SQ SEQUENCE 887 AA; 100809 MW; 478B68C4E500F470 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 887;
Best Local Similarity 100.0%; Pred. No. 0.00078;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 250 PTTTTTTTTTTTTT 263

RESULT 61
ID Q23895 PRELIMINARY; PRT; 889 AA.
AC Q23895;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Trans-acting factor.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=WS380B;
RX MEDLINE=90287164; PubMed=2192261;
RA Leiting B., Lindner I.J., Noegle A.A.;
RT "The extrachromosomal replication of Dictyostelium plasmid Ddp2
RT requires a cis-acting element and a plasmid-encoded trans-acting
RT factor.";
RL Mol. Cell. Biol. 10:3727-3736(1990).
DR EMBL; M55298; AAA33191.1; -.

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DR PIR; A35679; A35679.
DR DictyBase; DDB0001833; Ddb2-rep.
DR InterPro; IPR007778; Dict REP.
DR Pfam; PF05086; Dicty REP; 1.
SQ SEQUENCE 889 AA; 101055 MW; 0C96F120D830F544 CRC64;

Query Match      3.2%; Score 14; DB 2; Length 889;
Best Local Similarity 100.0%; Pred. No. 0.00078;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
Db 250 PTTTTTTTTTTTTT 263

RESULT 62
Q86A69
AC Q86A69 PRELIMINARY; PRT; 895 AA.
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Arabidopsis thaliana (Mouse-ear cross). Hypothetical 79.2
DE kba protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC116986; AA051907.1; -.
DR DictyBase; DDB0168226; JCV2_0_00892.
DR InterPro; IPR006768; CwfJ_C1_00892.
DR InterPro; IPR006767; CwfJ_C1_1_2.
DR Pfam; PF04677; CwfJ_C1; 1.
DR Pfam; PF04676; CwfJ_C2; 1.
DR Hypothetical protein.
KW Hypothetical protein.
SQ SEQUENCE 895 AA; 104485 MW; 94895D6A284E3384 CRC64;

Query Match      3.2%; Score 14; DB 2; Length 895;
Best Local Similarity 100.0%; Pred. No. 0.00079;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
Db 434 PTTTTTTTTTTTTT 447

RESULT 63
Q86L47
AC Q86L47 PRELIMINARY; PRT; 937 AA.
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;

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RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tungal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC117075; AA050743.1; -.
DR GO; GO:0005663; C:DNA replication factor C complex; IEA.
DR GO; GO:0005524; F:ATP binding; IEA.
DR GO; GO:0003677; F:DNA binding; IEA.
DR GO; GO:0000166; F:nucleotide binding; IEA.
DR GO; GO:0006260; F:DNA replication; IEA.
DR InterPro; IPR003593; AAA_ATPase.
DR InterPro; IPR003959; AAA_ATPase_cent.
DR InterPro; IPR000862; RFC.
DR Pfam; PF00004; AAA; 1.
DR SMART; SM00382; AAA; 1.
KW ATP-binding; Hypothetical protein.
SQ SEQUENCE 937 AA; 106088 MW; 0AFD6F0123CE2967 CRC64;

Query Match      3.2%; Score 14; DB 2; Length 937;
Best Local Similarity 100.0%; Pred. No. 0.00082;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 354
Db 51 TTTTTTTTTTTTTT 64

RESULT 64
Q81P52
ID Q81P52 PRELIMINARY; PRT; 1166 AA.
AC Q81P52;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE CG32972-PB (RE16941p).
GN Name=BG:DS01523.2; ORFNames=CG32972;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Ananides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Abriel J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brotter P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Fosler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,

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OC Cryptosporidiidae; Cryptosporidium.
OX NCBI_TaxID=5807;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=99066935; PubMed=9851610; DOI=10.1016/S0166-6851(98)00119-4;
RA Barnes D.A., Bonnin A., Huang J.X., Goussset L., Wu J., Gut J.,
RD Doyle P., Dubremetz J.F., Ward H., Petersen C.;
RT "A novel multi-domain mucin-like glycoprotein of Cryptosporidium
RL parvum mediates invasion.";
RM Mol. Biochem. Parasitol. 96:93-110(1998).
DR EMBL; AF068065; AAC98153.1; -.
DR PIR; T31113; T31113.
SQ SEQUENCE 1832 AA; 192653 MW; 590E6ACB16BB80D2 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 1832;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTTTT 353
Db 373 PTTTTTTTTTTTTT 366

RESULT 67
Q7KT96
ID Q7KT96 PRELIMINARY; PRT; 1853 AA.
AC Q7KT96;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE CG32972-PA.
GN ORFNames=CG32972;
OS Drosophila melanogaster (fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scher S.E., Li P.W., Hoskins R.A., Calle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Vandeil M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C.E., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA April J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brotter P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablo S., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Folsler K., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston D.A., Howland T.J., Wei M.H., Ibegwan C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Laoko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Pacleib J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Klamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Swirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wassarman D.A., Weinstein G.M., Weissbach J.,
RA Williams S.M., Woodage, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,

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RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195(2000).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426065; PubMed=12537568;
RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Lavery T., Muzny D.M., Nelson C.R.,
RA Pacleib J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Swirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstein G., Scher S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RT "Finishing a whole-genome shotgun: Release 3 of the Drosophila
RL melanogaster euchromatic genome sequence.";
RN Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426070; PubMed=12537573;
RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Swirskas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RT "The transposable elements of the Drosophila melanogaster euchromatin:
RL a genomics perspective.";
RN Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426069; PubMed=12537572;
RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
RA Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RT "Annotation of the Drosophila melanogaster euchromatic genome: a
RL systematic review.";
RN Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
RN [5]
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBSJ databases.
RN [6]
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBSJ databases.
DR EMBL; AS003642; AAS64704.1; -.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR000782; BIGH3_FAS1.
DR Pfam; PF02469; Fasciclin; Z.
DR SMART; SM00554; FAS1; 2.
DR PROSITE; PS0213; FAS1; 2.
SQ SEQUENCE 1853 AA; 201677 MW; 518684872828D53F CRC64;

Query Match 3.2%; Score 14; DB 2; Length 1853;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTTTT 353
Db 407 PTTTTTTTTTTTTT 420

RESULT 68
Q9NKC9
ID Q9NKC9 PRELIMINARY; PRT; 1893 AA.
AC Q9NKC9;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein BG:DS01523.2.
GN Name=BG:DS01523.2; ORFNames=CG32972;

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ID Q66GT4 PRELIMINARY; PRT; 3550 AA.
AC Q66GT4;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Mucin apoprotein precursor (Fragment).
GN Name=Muc19;
OS Rattus norvegicus (Rat).
OC Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BN/SnHedMCW;
RA Culp D.J., Latchney L.R., Fallon M.A., Denny P.A., Denny P.C.,
RA Couwenhoven R.I., Chuang S.;
RT "The Gene Encoding Mouse Muc19: cDNA, Genomic Organization and
RT Relationship to SMGC.";
RL Physiol. Genomics (Online) 0:0-0(2004).
DR EMBL; BK005555; DAA05595.1; -.
DR InterPro; IPR002919; Cysrich.TIL.
DR InterPro; IPR009041; PMP_SGC1.
DR InterPro; IPR008552; VWC_out.
DR InterPro; IPR001846; VWF_D.
DR Pfam; PF01826; TIL; 1.
DR Pfam; PF00094; VWD; 3.
DR SMART; SM00215; VWC_out; 2.
DR SMART; SM00216; VWD; 3.
KW Signal.
FT SIGNAL
FT NON_TER 3550 3550
SQ SEQUENCE 3550 AA; 354982 MW; 108149CC5F35DBFC CRC64;

Query Match 3.2%; Score 14; DB 2; Length 3550;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTT 354
DB 2446 TTTTNTTTTTTTTT 2459

RESULT 72
Q01601 PRELIMINARY; PRT; 56 AA.
ID Q01601
AC Q01601;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Major surface glycoprotein (Fragment).
OS Pneumocystis carinii.
OC Eukaryota; Fungi; Ascomycota; Pneumocystidomycetes; Pneumocystidaceae;
OC Pneumocystis.
OX NCBI_TaxID=4754;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=prototype form 1;
RA Linke M.J., Smulian A.G., Stringer J.R., Walzer P.D.;
RX MEDLINE=95107908; PubMed=7808998;
RT "Characterization of multiple unique cDNAs encoding the major surface
RT glycoprotein of rat-derived Pneumocystis carinii.";
RL Parasitol. Res. 80:478-486(1994).
DR EMBL; U07057; AAA74069.1; -.
FT NON_TER 1
FT NON_TER 56
SQ SEQUENCE 56 AA; 5825 MW; AE1F4EA7718D7DF7 CRC64;

Query Match 2.9%; Score 13; DB 2; Length 56;
Best Local Similarity 100.0%; Pred. No. 0.00064;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTT 353
DB 2446 TTTTNTTTTTTTTT 2459
```

```

Db 1 TTTTNTTTTTTTTT 13

RESULT 73
Q861E6 PRELIMINARY; PRT; 56 AA.
ID Q861E6
AC Q861E6;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC116551; AAO52164.1; -.
KW Hypothetical protein.
SQ SEQUENCE 56 AA; 6096 MW; 5D1F0B92FE6D17C7 CRC64;

Query Match 2.9%; Score 13; DB 2; Length 56;
Best Local Similarity 100.0%; Pred. No. 0.00064;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTT 353
DB 24 TTTTNTTTTTTTTT 36

RESULT 74
Q95UY4 PRELIMINARY; PRT; 67 AA.
ID Q95UY4
AC Q95UY4;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Merzoite surface protein 2 (Fragment).
OS Plasmodium falciparum.
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=5833;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=V333;
RA Hoffmann E.H., Silveira L.A., Tonhosolo R., Pereira F.J.,
RA Ribeiro W.L., Tonon A.P., Marrelli M.T., Kawamoto F., Ferreira M.U.;
RA Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY008396; AAG30717.1; -.
KW Merzoite.
FT NON_TER 1
FT NON_TER 67
SQ SEQUENCE 67 AA; 5732 MW; 6B2B3F43575D87C7 CRC64;

Query Match 2.9%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTT 353
DB 55 TTTTNTTTTTTTTT 67
```



```
RESULT 75
Q95UY6
ID Q95UY6 PRELIMINARY; PRT; 67 AA.
AC Q95UY6;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Merozoite surface protein 2 (Fragment).
OS Plasmodium falciparum.
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=5833;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=V57;
RA Hoffmann E.H., Silveira L.A., Tonhosolo R., Pereira F.J.,
RA Ribeiro W.L., Tonon A.P., Marrelli M.T., Kawamoto F., Ferreira M.U.;
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY008394; AAG30715.1; -.
KW Merozoite.
FT NON_TER 1 1
FT NON_TER 67 67
SQ SEQUENCE 67 AA; 5706 MW; 6C5E8980203990C4 CRC64;

Query Match 2.9%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 55 TTTT TTTT TTTT TTTT 67
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Search completed: June 28, 2005, 10:20:28
Job time : 119.949 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:54:53 ; Search time 119.57 Seconds

(without alignments)
1429.691 Million cell updates/sec

Title: US-10-622-237-2

Perfect score: 442

Sequence: 1 MASVLPSSGSCAAAAAAA.....AIIAEGQNNSEKEYFI 442

Scoring table:

OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 2105692 seqs, 386760381 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database : A_Geneseq_16Dec04:*

- 1: Geneseqp1980s:*
- 2: Geneseqp1990s:*
- 3: Geneseqp2000s:*
- 4: Geneseqp2001s:*
- 5: Geneseqp2002s:*
- 6: Geneseqp2003as:*
- 7: Geneseqp2003bs:*
- 8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	442	100.0	442	3	AB25619 Protein e
2	442	100.0	442	3	AA194341 Human cel
3	442	100.0	442	3	AA145092 Human lym
4	442	100.0	442	5	AA119887 Human tum
5	442	100.0	442	5	ABP62825 Human pol
6	442	100.0	442	6	ADA27144 Human nov
7	442	100.0	442	7	ADE54238 Human pro
8	442	100.0	442	8	ADE86685 Novel hum
9	417	94.3	440	2	AA117830 Human PRO
10	417	94.3	440	3	AA101321 Human PRO
11	417	94.3	440	4	AAU29040 Human PRO
12	417	94.3	440	6	ABU58416 Human PRO
13	417	94.3	440	6	ABU87964 Novel hum
14	417	94.3	440	6	ABU84279 Human sec
15	417	94.3	440	6	ABR66153 Human sec
16	417	94.3	440	6	ABR65543 Human sec
17	417	94.3	440	6	ABU99483 Human sec
18	417	94.3	440	6	ABU55930 Human sec
19	417	94.3	440	6	ABU82722 Human PRO
20	417	94.3	440	6	ABU89843 Novel hum
21	417	94.3	440	6	ABR68092 Human sec
22	417	94.3	440	6	ABU96145 Novel hum
23	417	94.3	440	6	ABU92576 Human sec
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31	417	94.3	440	6	ABU97969 Novel hum
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33	417	94.3	440	6	ABU89368 Human PRO
34	417	94.3	440	6	ABU86209 Human sec
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93	417	94.3	440	6	ABU82186 Novel hum
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97	417	94.3	440	6	ABU60351 Novel hum
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Db 241 YKPOVHIQMTYPLQGLTRREGDALELTCEAIGKPPQVWVWVRVVDDEMPQHAVLSGPNLFI 300
Qy 301 NNLKNTDNGTYRCASINVGKAHSDYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITD 360
Db 301 NNLKNTDNGTYRCASINVGKAHSDYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITD 360
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Db 361 SRAGEEGSIKRAVDHAGVGGVAVVAVFAMLCIIILGRYFAHKGTYETHEAKGADDAADA 420
Qy 421 DTALINAEAGGQNNSEKKEYFI 442
Db 421 DTALINAEAGGQNNSEKKEYFI 442

RESULT 2
AA94341
ID AA94341 standard; protein; 442 AA.
XX
AC AA94341;
XX
DT 22-AUG-2000 (first entry)
XX
DE Human cell surface receptor protein #8.
XX
KW Human; HCSR; cyostatic; antiarthritic; antirheumatic; antiasthmatic;
KW immunosuppressive; antiarteriosclerotic; antibacterial; antiparasitic;
KW neuroprotective; nontropic; anticonvulsant; cancer; leukaemia; melanoma;
KW rheumatoid arthritis; asthma; atherosclerosis; akathesia;
KW Alzheimer's diseases; multiple sclerosis; epilepsy.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..44
FT Protein 45..442
FT Region 53
FT Domain 57..126
FT Region 67
FT Region 101
FT Region 103
FT Region 113
FT Region 115
FT Region 155
FT Domain 159..222
FT Region 165
FT Region 176
FT Region 190
FT Region 233
FT Region 241
FT Domain 260..315
FT Region 304
FT Region 308
FT Region 310

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FT Region
FT 329 /note= "potential phosphorylation site"
FT 368 /note= "potential phosphorylation site"
FT 375..394 /note= "potential phosphorylation site"
FT /label= Transmembrane_domain
FT 432 /note= "potential glycosylation site"
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XX WO200028032-A2.
XX
XX 18-MAY-2000.
XX
XX 12-NOV-1999; 99WO-US026742.
XX
XX 12-NOV-1998; 98US-00191280.
XX 07-DEC-1998; 98US-00206647.
XX 08-MAR-1999; 99US-0123404P.
XX
XX (INCY-) INCYTE PHARM INC.
XX
XX Tang YT, Corley NC, Guegler KJ, Yue H, Baughn MR, Lal P;
XX Hillman JL, Bandman O, Azimzai Y, Au-Young J;
XX
XX WPI; 2000-376546/32.
XX N-PSDB; AAA27051.
XX
XX New human cell surface receptor protein and polynucleotide useful for
XX diagnosis, prevention and treatment of cancer, immune disorders,
XX infection and neuronal disorders.
XX
XX Claim 1; Page 81-82; 97pp; English.
XX
XX The present sequence is a novel human cell surface receptor protein
XX (HCSR) designated HCSR-8. The nucleotide sequence was identified in
XX Incyte Clone 312256 from the cDNA library LUNGNOT02, which was made from
XX RNA isolated from lung tissue. A number of Incyte Clones were used to
XX assemble the consensus sequence. BLAST analysis showed that the sequence
XX is homologous to immuno-superfamily protein B12 g3779242. HCSR and its
XX antagonist are useful for preventing or treating disorders associated
XX with decreased or increased expression or activity of HCSR. Such
XX disorders include cancers such as leukaemia and melanoma, immune
XX disorders such as rheumatoid arthritis, asthma and atherosclerosis,
XX bacterial and parasitic infections and neuronal disorders such as
XX akathesia, Alzheimer's disease, multiple sclerosis and epilepsy.
XX Polynucleotides encoding HCSRs may be used as hybridisation probes to
XX diagnose these conditions. Anti-HCSR antibodies may be used as
XX antagonists, as a targeting or delivery mechanism for bringing
XX pharmaceutical agents into contact with cells or tissues expressing HCSR
XX and for diagnosis of HCSR-related disorders. HCSR and its catalytic or
XX immunogenic fragments are useful for drug screening using libraries of
XX compounds
XX
XX Sequence 442 AA;
Qy Query Match 100.0%; Score 442; DB 3; Length 442;
Db Best Local Similarity 100.0%; Pred. No. 0;
Qy Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 1 MASVLPSSGSCQCAAAAAAAPPGLRLRLLLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Qy 1 MASVLPSSGSCQCAAAAAAAPPGLRLRLLLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Db 61 TISCVNKSDDSVIQLLNPNRQTYFRDPLKDSRQLNFSSELKSLTVNSISDEG 120
Qy 61 TISCVNKSDDSVIQLLNPNRQTYFRDPLKDSRQLNFSSELKSLTVNSISDEG 120
Db 121 RYFCQLYTDPPQBSYTTITVLVPPRNLMDIQDXTAVEGEIEVNCCTAMASKPATIRWF 180
Qy 121 RYFCQLYTDPPQBSYTTITVLVPPRNLMDIQDXTAVEGEIEVNCCTAMASKPATIRWF 180
Db 181 KGNETLKGKSEVEBWSMDYTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQTRQYLEVQ 240

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Db 181 KGNTLKGKSEVESEWSDMYTTSQMLKLVHKEDDGVPIQVEHPAVTGNLQRYLEVQ 240
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Db 301 NNLKNTDNGTYRCEASNIVGKAHSDYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTITD 360
Qy 361 SRAGEGSTRAVDHAVTGGVAVVVFAMLCIIILGRYFARHKGTYTTHAKGADDAADA 420
Db 361 SRAGEGSTRAVDHAVTGGVAVVVFAMLCIIILGRYFARHKGTYTTHAKGADDAADA 420
Qy 421 DTAIINAEQGNNSSEKKEYFI 442
Db 421 DTAIINAEQGNNSSEKKEYFI 442
RESULT 3
AAY45092
ID AAY45092 standard; protein; 442 AA.
AC AAY45092;
XX
XX 31-MAY-2000 (first entry)
XX Human lymphoid derived dendritic cell adhesion molecule.
XX Lymphoid derived dendritic cell adhesion molecule; LDCAM; human; B7-1;
KW B7-1; T cell proliferation; natural killer cell; NK; tumour cell;
KW biological activity; quality control reagent; treatment; inflammation;
KW immune system disorder; autoimmune; viral infection; infectious disease;
KW organ transplant rejection; bone marrow; modulator; immune response.
XX
XX Homo sapiens.
XX Key Location/Qualifiers
FH Domain 1..374 /label= Extracellular_domain
FT Peptide 1..38 /label= Leader_peptide
FT Protein 39..442 /label= Mature_human_LDCAM_polypeptide
FT Modified-site 67..69 /note= "N-Glycosylation site"
FT Modified-site 101..103 /note= "N-Glycosylation site"
FT Modified-site 113..115 /note= "N-Glycosylation site"
FT Modified-site 165..167 /note= "N-Glycosylation site"
FT Modified-site 304..306 /note= "N-Glycosylation site"
FT Modified-site 308..310 /note= "N-Glycosylation site"
FT Modified-site 375..395 /note= "N-Glycosylation site"
FT Domain /label= Transmembrane_domain
FT Domain 396..442 /label= Cytoplasmic_domain
XX
XX W0200008158-A2.
XX
XX 17-FEB-2000.
XX
XX 05-AUG-1999; 99WO-US017905.
XX
XX 07-AUG-1998; 98US-0095672P.
XX
XX (IMMV) IMMUNEX CORP.
XX
XX Baum PR, Fanslow WC;
PI

XX WPI; 2000-205712/18.
DR N-PSDB; AAZ50882.
XX Novel molecules designated LDCAM are capable of altering or modulating T cell function.
PT
XX
PS Claim 7; Page 42-43; 44pp; English.
XX
CC The present amino acid sequence is the human lymphoid derived dendritic cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic cells and displays homology to adhesion molecules, B7-1 and cytoplasmic region of B7-L1. Human LDCAM is expressed in breast, retina, foetal liver, spleen and heart, lung, muscle, placenta, thyroid and lung carcinoma. LDCAM polypeptides interacts with T cell surface molecules to alter signalling and inhibits T cell proliferation, bind to themselves and B7L-1, an LDCAM binding protein and increases natural killer (NK) cell populations. It may be used to measure the biological activity and as quality control reagents of LDCAM binding proteins. LDCAM may be used for treating disorders associated with malfunctioning of immune system, inflammation, autoimmune disorders, viral infected cells, infectious diseases and for killing tumour cells. They are also useful for prevention or reducing the effect of organ and bone marrow transplant rejection and for modulating T cell immune responses. LDCAM polypeptides may also be used as carriers for delivering agents attached to T cells or cells bearing B7L-1
CC
XX
SQ Sequence 442 AA;
Query Match 100.0%; Score 442; DB 3; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MASVWLPSSQCAAAAAAPPGLRLRLLLLSAALPTGQNLFTKDVTVIEGEVA 60
Db 1 MASVWLPSSQCAAAAAAPPGLRLRLLLLSAALPTGQNLFTKDVTVIEGEVA 60
Qy 61 TISCQVKNKSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLNFSSELKVSILTNSISDEG 120
Db 61 TISCQVKNKSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLNFSSELKVSILTNSISDEG 120
Qy 121 RYFCQLYTDPPQBSYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATTIRWF 180
Db 121 RYFCQLYTDPPQBSYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATTIRWF 180
Qy 181 KGNTLKGKSEVESEWSDMYTTSQMLKLVHKEDDGVPIQVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTLKGKSEVESEWSDMYTTSQMLKLVHKEDDGVPIQVEHPAVTGNLQRYLEVQ 240
Qy 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFI 300
Db 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFI 300
Qy 301 NNLKNTDNGTYRCEASNIVGKAHSDYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTITD 360
Db 301 NNLKNTDNGTYRCEASNIVGKAHSDYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTITD 360
Qy 361 SRAGEGSTRAVDHAVTGGVAVVVFAMLCIIILGRYFARHKGTYTTHAKGADDAADA 420
Db 361 SRAGEGSTRAVDHAVTGGVAVVVFAMLCIIILGRYFARHKGTYTTHAKGADDAADA 420
Qy 421 DTAIINAEQGNNSSEKKEYFI 442
Db 421 DTAIINAEQGNNSSEKKEYFI 442
RESULT 4
AAE19887
ID AAE19887 standard; protein; 442 AA.
XX
XX AAE19887;
XX
XX 18-JUN-2002 (first entry)
DT

```
XX DE Human tumour suppressor lung cancer 1 (TSLC1) polypeptide.
XX DE
XX DE
XX KW Human; hepatocellular carcinoma; tumour suppressor lung cancer 1; TSLC1;
XX KW liver; lung; pancreatic cancer; cell proliferative disorder; cytostatic;
XX KW gene therapy.
XX KW
XX OS Homo sapiens.
XX XX
XX PN WO200214557-A1.
XX XX
XX PD 21-FEB-2002.
XX XX
XX PF 15-AUG-2001; 2001WO-US025690.
XX XX
XX PR 15-AUG-2000; 2000US-0225264P.
XX XX
XX PA (UWJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
XX XX
XX PI Reeves RH, Yoshinori M;
XX XX
XX DR WPI; 2002-241913/29.
XX XX
XX PT Detecting cell proliferative disorder associated with tumor suppressor
XX PT lung cancer (TSLC) 1 in subject, comprises contacting proliferating cell
XX PT of subject with reagent detecting TSLC1 and detecting modification in
XX PT TSLC1 level.
XX XX
XX PS Disclosure; Page 49-50; 59pp; English.
XX XX
XX CC The invention relates to a method for detecting cell proliferative
XX CC disorder associated with tumour suppressor lung cancer 1 (TSLC1) in a
XX CC subject. The method comprising contacting a cell component of a
XX CC proliferating cell with a reagent that detects level of the cell
XX CC component in the proliferating cell and determining modification in the
XX CC level of the cell component in proliferating cell as compared with a
XX CC healthy cell, where modification indicates disorder associated with a
XX CC TSLC1. The method is useful for detecting a cell proliferative disorder
XX CC (e.g. liver, lung or pancreatic cancer) associated with tumour suppressor
XX CC lung cancer 1 (TSLC1) in a subject. The invention is useful in gene
XX CC therapy and for treating a cell proliferative disorder such as lung
XX CC cancer (human non-small cell lung cancer), liver cancer (hepatocellular
XX CC carcinoma) or pancreatic cancer associated with modification of TSLC1
XX CC production, where a reagent which modulates (preferably, increases) TSLC1
XX CC level in the cells, is employed. The present sequence is human TSLC1
XX XX
XX SQ Sequence 442 AA;

Query Match 100.0%; Score 442; DB 5; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAAALPTGQGNLFTKDVTVIEGEVA 60
DB 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAAALPTGQGNLFTKDVTVIEGEVA 60
QY 61 TISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVLSTNVSIDEG 120
DB 61 TISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVLSTNVSIDEG 120
QY 121 RYFCQLYTDPPQSYTTITVLVPPRNLMIDIKDQTAVEGEIEVNCVTAMASKPATIRWF 180
DB 121 RYFCQLYTDPPQSYTTITVLVPPRNLMIDIKDQTAVEGEIEVNCVTAMASKPATIRWF 180
QY 181 KGNTLKGKSEVEBSWDMYTTISQMLKVKHEDDGVVICQVHPAVTGNLQRYLEVQ 240
DB 181 KGNTLKGKSEVEBSWDMYTTISQMLKVKHEDDGVVICQVHPAVTGNLQRYLEVQ 240
QY 241 YKPVQHIMQTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFI 300
DB 241 YKPVQHIMQTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFI 300
QY 301>NNLKNKTNDNGTYRCEASNIVGKAHSDYMLYVYDPTTTPPTTTTTTTTTTILTIITD 360
```

```
Db 301>NNLKNKTNDNGTYRCEASNIVGKAHSDYMLYVYDPTTTPPTTTTTTTTTTILTIITD 360
QY 361 SRAGEGSRADVHAGVIGGVVAVVVFAMLCIIILGRYFARHKGTYFTHAKGADDAADA 420
Db 361 SRAGEGSRADVHAGVIGGVVAVVVFAMLCIIILGRYFARHKGTYFTHAKGADDAADA 420
QY 421 DTAIINAEGGQNNSEKKEYFI 442
Db 421 DTAIINAEGGQNNSEKKEYFI 442

RESULT 5
ABP62825
ID ABP62825 standard; protein; 442 AA.
XX AC ABP62825;
XX DT 14-OCT-2002 (first entry)
XX DE Human polypeptide SEQ ID NO 262.
XX KW Human; vulnery; dermatological; neuroprotective; nootropic; cancer;
XX KW antiparkinsonian; immunostimulant; cytostatic; immunosuppressive;
XX KW antidiabetic; antiallergic; gene therapy; wound healing; tissue repair;
XX KW burn; central nervous system disorder; Alzheimer's disease;
XX KW Parkinson's disease; Huntington's disease; immune disorder;
XX KW autoimmune disorder; multiple sclerosis; diabetes; allergy.
XX OS Homo sapiens.
XX PN WO200218424-A2.
XX PD 07-MAR-2002.
XX PF 31-AUG-2001; 2001WO-US027093.
XX PR 01-SBP-2000; 2000US-00654935.
XX PA (HYSE-) HYSEQ INC.
XX PI Tang YT, Asundi V, Zhou P, Xue AJ, Ren F, Zhang J, Wang J;
XX PI Zhao QA, Wang D, Liu C, Drmanac RT, Wehrman T;
XX DR WPI; 2002-583321/62.
XX DR N-PSDB; ABQ93304.
XX PT New polynucleotide and polypeptides, useful for treatment and diagnosis
XX PT of Alzheimer's, Parkinson's, Huntington's, amyotrophic lateral
XX PT sclerosis, immune deficiencies, cancer, autoimmune disorders, multiple
XX PT sclerosis, diabetes and allergies.
XX PS Claim 20; SEQ ID NO 262; 284pp + Sequence Listing; English.
XX CC The invention relates to an isolated polynucleotide (I) comprising one of
XX CC 245 sequences (ABQ93288-ABQ93532). Treating a condition comprising
XX CC administering to a mammalian subject a composition comprising the protein
XX CC (II) encoded by (I) (ABP62809-ABP63053) or an antibody (III) to (II).
XX CC (I), (II) and (III) are useful for diagnostic evaluation of disorders.
XX CC (I) is useful for gene therapy of diseases and (II) can be used for
XX CC therapeutic treatment. Diseases that may be treated include wound healing
XX CC and tissue repair, burns, central nervous system disorders (e.g.
XX CC Alzheimer's, Parkinson's, Huntington's and amyotrophic lateral
XX CC sclerosis), immune deficiencies, cancer, autoimmune disorders, multiple
XX CC sclerosis, diabetes and allergies. Note: The sequence data for this
XX CC patent did not form part of the printed specification, but was obtained
XX CC in electronic format directly from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 442 AA;

Query Match 100.0%; Score 442; DB 5; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
```

Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	1 MASVLPSSGSCAAAAAAPPGLRLRLLLLLLFSAAALPTGDCQNLFTKDVTVIEGEVA 60
Db	1 MASVLPSSGSCAAAAAAPPGLRLRLLLLLLFSAAALPTGDCQNLFTKDVTVIEGEVA 60
Qy	61 TISQVKNKSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFFSSSELKVSLTNVSISDEG 120
Db	61 TISQVKNKSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFFSSSELKVSLTNVSISDEG 120
Qy	121 RYFCQLYTDPPQSSYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWF 180
Db	121 RYFCQLYTDPPQSSYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWF 180
Qy	181 KGNTELKGKSEVEEWSDMYTTVTSQMLKVKHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
Db	181 KGNTELKGKSEVEEWSDMYTTVTSQMLKVKHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
Qy	241 YKPQVHIQMTYPLQGLTFREGDALELTCEAIGKPOPMVMTWVRVDDEMPQHAVLSGPNLFI 300
Db	241 YKPQVHIQMTYPLQGLTFREGDALELTCEAIGKPOPMVMTWVRVDDEMPQHAVLSGPNLFI 300
Qy	301 NNLNKTDNGYRCEASNIQKASHDYMLYVYDPTTTPPTTTTTTTTTTTTTTTTTILTIITD 360
Db	301 NNLNKTDNGYRCEASNIQKASHDYMLYVYDPTTTPPTTTTTTTTTTTTTTTTTILTIITD 360
Qy	361 SRAGEEGSIRAVDHAVIGGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db	361 SRAGEEGSIRAVDHAVIGGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy	421 DTAIINAEQGQNNSEKKEYFI 442
Db	421 DTAIINAEQGQNNSEKKEYFI 442
RESULT 6	
ADA27144	
ID	ADA27144 standard; protein; 442 AA.
AC	ADA27144;
CD	
DT	20-NOV-2003 (first entry)
XX	Human novel secreted protein from gene 11 #3.
XX	cytostatic; antiinflammatory; immunomodulator; neuroprotective;
KW	hemostatic; gene therapy; cancer; inflammation; immune disorder;
XW	neurological disorder; blood clotting disorder; food additive;
KW	preservative; human; secreted protein.
XX	
OS	Homo sapiens.
XX	
PN	US2003055231-A1.
XX	
PD	20-MAR-2003.
XX	
PF	29-OCT-2001; 2001US-00984130.
XX	
PR	28-OCT-1998; 98US-0105971P.
PR	27-OCT-1999; 99WO-US025031.
PR	19-APR-2000; 2000US-0198407P.
PR	30-OCT-2000; 2000US-0243792P.
PR	18-APR-2001; 2001US-00836353.
XX	
PA	(NIJ)/ NI J.
PA	(YOUN)/ YOUNG P E.
PA	(KENN)/ KENNY J J.
PA	(OLSE)/ OLSEN H S.
PA	(MOOR)/ MOORE P A.
PA	(WEIY)/ WEI Y.
PA	(GREE)/ GREENE J M.
PA	(RUBE)/ RUBEN S M.
PA	(LIUD)/ LIU D.

RESULT 6
ADA27144
ID ADA27144 standard; protein; 442 AA.
XX AC ADA27144;
XX AC ADA27144;
XX 20-NOV-2003 (first entry)
XX Human novel secreted protein from gene 11 #3.
XX cytosolic; antiinflammatory; immunomodulator; neuroprotective;
XX hemostatic; gene therapy; cancer; inflammation; immune disorder;
XX neurological disorder; blood clotting disorder; food additive;
XX preservative; human; secreted protein.
XX Homo sapiens.
XX OS
XX US2003055231-A1.
XX 20-MAR-2003.
XX 29-OCT-2001; 2001US-00984130.
XX 28-OCT-1998; 98US-0105971P.
XX 27-OCT-1999; 99WO-US025031.
XX 19-APR-2000; 2000US-0198407P.
XX 30-OCT-2000; 2000US-0243792P.
XX 18-APR-2001; 2001US-00836353.
XX (NIJ/) NI J.
XX (YOUNG) YOUNG P E.
XX (KENN) KENNY J J.
XX (OLSE) OLSEN H S.
XX (MOOR) MOORE P A.
XX (WEI) WEI Y.
XX (GREE) GREENE J M.
XX (RUBE) RUBEN S M.
XX (LIUD) LIU D.

(CROC/) CROCKER P R.									
PA	XX	NI J,	Young PE,	Kenny JJ,	Olsen HS,	Moore PA,	Wei Y,	Greene JM;	
PI	PI	Ruben SM,	Liu D,	Crocker PR;					
XX	DR	WPI;	2003-567103/53.						
XX	XX	New human secreted nucleic acid molecules and polypeptides, useful for preventing, treating, or ameliorating a medical condition, such as cancer, inflammation, immune disorders, neurological and blood clotting disorders.							
PT	PT	Disclosure; Page 72; 454pp; English.							
PS	XX	The invention relates to an isolated nucleic molecule that is at least 9% identical to 18 human cDNA sequences representing 12 novel genes encoding secreted proteins or a polynucleotide fragment of the cDNA sequence contained in American Type Culture Collection (ATCC) deposit No. defined in the specification, its species homologue, a variant or allelic variant of the polynucleotide having a polynucleotide capable of hybridising under conditions the polynucleotide, where the polynucleotide does not hybridise under stringent conditions to a nucleic acid molecule having a nucleotide sequence of only A or T residues. Also included are recombinant vectors, host cells (for producing the polypeptide), the secreted polypeptide (comprising a sequence that is at least 95% identical to a polypeptide fragment, domain, epitope, full-length protein, variant, allelic variant or species homologue), antibodies that specifically bind to the polypeptides, diagnosing, treating, preventing or ameliorating a medical condition by administering the polynucleotide or the polypeptide, the gene corresponding to the cDNA sequence and identifying an activity in a biological assay (by expressing the cDNA sequence in a cell, isolating the supernatant, and detecting an activity in a biological assay and identifying the protein in the supernatant having the activity). The polypeptides, nucleic acids and antibodies are useful for diagnosing a pathological condition or a susceptibility to a pathological condition, for preventing, treating, or ameliorating a medical condition, such as cancer, inflammation and other immune disorders, neurological and blood clotting disorders (many examples are given in the specification). The nucleic acids are also useful for chromosome identification, radiation hybrid mapping or long-range restriction mapping. The polypeptides and antibodies are useful for providing immunological probes for differential identification of the tissues immunohistochemistry assays. The polypeptide, polynucleotide, agonist or antagonist may also be used as a food additive or preservative to increase or decrease storage capabilities, fat content or other nutritional components. The present is a secreted protein of the invention.							
CC	XX	Sequence 442 AA;							

Query Match		100.0%; Score 442; DB 6; Length 442;																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Best Local Similarity		100.0%; Pred. No. 0;																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Matches 442; Conservative		0; Mismatches 0; Indels 0; Gaps 0;																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
QY	1	MASVLP	SGSQCAAAAAA	PPGLRLRLRL	LLLLLSA	ALIPTG	DGQNLF	TKDVT	VI	GE	VA	60																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</

QY 301 NNLKNTDNGTYRCASNIIVGKASDYMIVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTITD 360
DB 301 NNLKNTDNGTYRCASNIIVGKASDYMIVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTITD 360
QY 361 SRAGEEGSIRAVDHAVIGGVAVVVFAMLCILIIILGRYFARHKGTFTTHEAKGADDAADA 420
DB 361 SRAGEEGSIRAVDHAVIGGVAVVVFAMLCILIIILGRYFARHKGTFTTHEAKGADDAADA 420
QY 421 DTAINAEGGQNNSEKKEYFI 442
DB 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 7

ID ADE54238
XX ADE54238 standard; protein; 442 AA.

AC ADE54238;

DT 29-JAN-2004 (first entry)

XX Human Protein NP_055148, SEQ ID NO 41.

XX Human; pain; neuronal tissue; gene therapy;

KW spinal segmental nerve injury; chronic constriction injury; CCI;

KW spared nerve injury; SNI; Chung.

XX Homo sapiens.

XX W02003016475-A2.

XX 27-FEB-2003.

XX 14-AUG-2002; 2002WO-US025765.

XX 14-AUG-2001; 2001US-0312147P.

PR 01-NOV-2001; 2001US-0346382P.

PR 26-NOV-2001; 2001US-033347P.

XX (GEHO) GEN HOSPITAL CORP.

PA (FARB) BAYER AG.

XX Woolf C, D'urso D, Befort K, Costigan M;

XX WPI; 2003-268312/26.

DR GENBANK; NP_055148.

XX New composition comprising two or more isolated polypeptides, useful for preparing a medicament for treating pain in an animal.

XX Claim 1; Page; 1017pp; English.

XX The invention discloses a composition comprising two or more isolated rat or human polynucleotides or a polynucleotide which represents a fragment, derivative or allelic variation of the nucleic acid sequence. Also claimed are a vector comprising the novel polynucleotide, a host cell comprising the vector, a method for identifying a nucleotide sequence which is differentially regulated in an animal subjected to pain and a kit to perform the method, an array, a method for identifying an agent that increases or decreases the expression of the polynucleotide sequence that is differentially expressed in neuronal tissue of a first animal subjected to pain, a method for identifying a compound which regulates the expression of a polynucleotide sequence which is differentially expressed in an animal subjected to pain, a method for identifying a compound that regulates the activity of one or more of the polynucleotides, a method for producing a pharmaceutical composition, a method for identifying a compound or small molecule that regulates the activity in an animal of one or more of the polypeptides given in the specification, a method for identifying a compound useful in treating pain and a pharmaceutical composition comprising the one or more polypeptides or their antibodies. The polynucleotide or the compound that modulates its activity is useful for preparing a medicament for treating

CC pain (e.g. spinal segmental nerve injury (Chung), chronic constriction injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene therapy). The sequence presented is a human protein (shown in Table 2 of the specification) which is differentially expressed during pain. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic form directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 442 AA;

Query Match 100.0%; Score 442; DB 7; Length 442;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLLLPTGQGNLFTKDVTVIEGEVA 60

DB 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLLLPTGQGNLFTKDVTVIEGEVA 60

QY 61 TISCQVNSKSDSVIQLLNPNTQIYPRDFRPLKDSRFQLNFSSELKVSILTNVSISE 120

DB 61 TISCQVNSKSDSVIQLLNPNTQIYPRDFRPLKDSRFQLNFSSELKVSILTNVSISE 120

QY 121 RYFCQLYTDPPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATTTIRWF 180

DB 121 RYFCQLYTDPPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATTTIRWF 180

QY 181 KGNTLKGKSEVESEWSDMTVTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQTOYLEVQ 240

DB 181 KGNTLKGKSEVESEWSDMTVTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQTOYLEVQ 240

QY 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPVMVTVRVDDEMPQHAVLSGPNLFI 300

DB 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPVMVTVRVDDEMPQHAVLSGPNLFI 300

QY 301 NNLKNTDNGTYRCASNIIVGKASDYMIVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTITD 360

DB 301 NNLKNTDNGTYRCASNIIVGKASDYMIVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTITD 360

QY 361 SRAGEEGSIRAVDHAVIGGVAVVVFAMLCILIIILGRYFARHKGTFTTHEAKGADDAADA 420

DB 361 SRAGEEGSIRAVDHAVIGGVAVVVFAMLCILIIILGRYFARHKGTFTTHEAKGADDAADA 420

QY 421 DTAINAEGGQNNSEKKEYFI 442

DB 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 8

ADE86685

ID ADE86685 standard; protein; 442 AA.

XX AC ADE86685;

XX 29-JAN-2004 (first entry)

XX Novel human secreted protein #11 associated protein #1.

XX human; secreted protein; cancer; liver disorder; hepatitis;

KW neural disorder; Alzheimer's disease.

XX Homo sapiens.

XX US2003129685-A1.

XX 10-JUL-2003.

XX 18-APR-2001; 2001US-00836353.

XX 28-OCT-1998; 98US-0105971P.

PR 27-OCT-1999; 99WO-US025031.

PR 19-APR-2000; 2000US-0198407P.

XX (NIJ/) NI J.

XX 18-DEC-2001 (first entry)
XX Human PRO polypeptide sequence #17.
XX PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
XX dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
XX
OS Homo sapiens.
XX
XX WO200168848-A2.
XX
XX 20-SEP-2001.
XX
XX 28-FEB-2001; 2001WO-US006520.
XX
XX 01-MAR-2000; 2000WO-US005601.
XX 02-MAR-2000; 2000WO-US005841.
XX 03-MAR-2000; 2000US-0187202P.
XX 06-MAR-2000; 2000US-0186968P.
XX 14-MAR-2000; 2000US-0189320P.
XX 14-MAR-2000; 2000US-0189328P.
XX 15-MAR-2000; 2000WO-US006884.
XX 21-MAR-2000; 2000US-0190828P.
XX 21-MAR-2000; 2000US-0191007P.
XX 21-MAR-2000; 2000US-0191048P.
XX 21-MAR-2000; 2000US-0191314P.
XX 28-MAR-2000; 2000US-0192655P.
XX 29-MAR-2000; 2000US-0193032P.
XX 29-MAR-2000; 2000US-0193053P.
XX 30-MAR-2000; 2000WO-US008439.
XX 04-APR-2000; 2000US-0194449P.
XX 04-APR-2000; 2000US-0194647P.
XX 11-APR-2000; 2000US-0195975P.
XX 11-APR-2000; 2000US-0196000P.
XX 11-APR-2000; 2000US-0196187P.
XX 11-APR-2000; 2000US-0196690P.
XX 11-APR-2000; 2000US-0196820P.
XX 18-APR-2000; 2000US-0198121P.
XX 18-APR-2000; 2000US-0198585P.
XX 25-APR-2000; 2000US-0199397P.
XX 25-APR-2000; 2000US-0199550P.
XX 25-APR-2000; 2000US-0199654P.
XX 03-MAY-2000; 2000US-020156P.
XX 17-MAY-2000; 2000WO-US013705.
XX 22-MAY-2000; 2000WO-US014042.
XX 30-MAY-2000; 2000WO-US014941.
XX 02-JUN-2000; 2000WO-US015264.
XX 05-JUN-2000; 2000US-0209832P.
XX 28-JUL-2000; 2000WO-US020710.
XX 22-AUG-2000; 2000US-00644848.
XX 24-AUG-2000; 2000WO-US023328.
XX 08-NOV-2000; 2000WO-US030952.
XX 01-DEC-2000; 2000WO-US032678.
XX 20-DEC-2000; 2000WO-US034956.
XX
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2001-602746/68.
XX N-PSDB; AAS45941.
XX
XX Novel nucleic acids encoding PRO polypeptides, used to diagnose the
XX presence of tumors, such as prostate and breast tumors, in mammals and to
XX screen for modulators of the compounds.
XX
XX Claim 11; Fig 34; 774pp; English.
XX
XX Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.

CC The PRO polypeptides and their associated nucleic acids can be used to
CC detect the presence of a tumour in a mammal by comparing the level of
CC expression of a PRO polypeptide in a test sample of cells from the animal
CC and a control sample of normal cells, whereby a higher level of
CC expression in the test sample indicates the presence of a tumour in the
CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC and rabbits but are preferably human. The polypeptides can be used to
CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC when contacted with it. A specific polypeptide can be used to stimulate
CC the proliferation or differentiation of chondrocyte cells. The PRO
CC proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders
XX
XX Sequence 440 AA;
SQ
Query Match 94.3%; Score 417; DB 4; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLFSAALIPFGDGNLPTKDVTVIEGVATISQVKNKSDSVIQLLNPRTIY 85
Db LRLLLLFSAALIPFGDGNLPTKDVTVIEGVATISQVKNKSDSVIQLLNPRTIY 83
Qy 86 FRDPRFKDSRFOLLNFSSELKVSLSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db FRDPRFKDSRFOLLNFSSELKVSLSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKDTAVGEEIEVNCCTAMASKPATTTIRWFKGNTLKGKSEVEESDMYTVTSOL 205
Db NLMDIQKDTAVGEEIEVNCCTAMASKPATTTIRWFKGNTLKGKSEVEESDMYTVTSOL 203
Qy 206 MLKVHKEDDGVVICQVEHPAVTGNLQTORYLEYVQVKPQVHIQMTYPLQGLTREGDALEL 265
Db MLKVHKEDDGVVICQVEHPAVTGNLQTORYLEYVQVKPQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVWVTVWRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db TCEAIGKQPQVWVTVWRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVYDPPPTTIPPPPTTT 385
Db YMLYVYDPPPTTIPPPPTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQQNNSEKKEYFI 442
Db FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQQNNSEKKEYFI 440
RESULT 12
ABU58416
ID ABU58416 standard; protein; 440 AA.
XX
XX AC ABU58416;
XX
XX DT 15-APR-2003 (first entry)
XX
XX DE Human PRO polypeptide #17.
XX
XX Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
KW dog; cat; cow; horse; sheep; pig; goat; rabbit; ADEPT;
KW antibody-dependent enzyme mediated prodrug therapy.
XX
XX OS Homo sapiens.
XX
XX PN US2003027272-A1.
XX
XX PD 06-FEB-2003.
XX
XX PF 21-JUN-2002; 2002US-00176492.
XX

PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
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AC ABU84279;
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KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing.
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XX Homo sapiens.
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XX extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
XX chondrocyte; proliferation; differentiation; cartilage disorder;
XX bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
XX adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
XX liver; drug screening; transgenic animal; genetic analysis;
XX antiarthritic; vulnery; gene therapy.
XX Homo sapiens.
XX US2003027278-A1.
XX 06-FEB-2003.
XX 21-JUN-2002; 2002US-00176987.
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Human secreted/transmembrane protein (PRO) #17.

KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing.
XX Homo sapiens.
XX US2003040070-A1.
XX 27-FEB-2003.
XX 27-JUN-2002; 2002US-00184627.
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XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
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PR 01-JUL-1998; 98US-0091359P.
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PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.

CC nucleotide sequence or full-length coding sequence with any of 15 fully
CC defined sequences of 957-3441 base pairs, given in the specification; or
CC (c) at least 80% sequence identity to a full-length coding sequence of a
CC DNA deposited under ATCC Accession No. 209526, 209508, 209524, 209528,
CC 209530, 209523, 209493, 209531, 209529, 209527, 209570, 209618,
CC 209621 or 209619; (2) a vector comprising the nucleic acid; (3) a host
CC cell comprising the vector which, when cultured under conditions suitable
CC for expression of the PRO polypeptide, produces the PRO protein; (4) a
CC chimeric molecule comprising PRO fused to a heterologous amino acid
CC sequence; and (5) an anti-PRO antibody. The methods and compositions of
CC the present invention are useful for the diagnosis and treatment of
CC disorders associated with the PRO polypeptide, such as AIDS (acquired
CC immunodeficiency syndrome), cancer, atherosclerosis, inflammatory
CC disease, diabetic complications, cardiac injury and organ failure. The
CC antibodies can also be used in the different screening, therapeutic and
CC biological assays. The present sequence represents a PRO protein
XX
SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	86	FRDPRPLKDSRFQLLNFSSELKSLVNLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR	145
Db	84	FRDPRPLKDSRFQLLNFSSELKSLVNLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR	143
Qy	146	NLMIDIOKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEESDMYTVTSOL	205
Db	144	NLMIDIOKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEESDMYTVTSOL	203
Qy	206	MLKVHKEDDGPVVCQVEHPAVTGNLQTVLEQYKPVQHIQMTYPLQGLTREGDALEL	265
Db	204	MLKVHKEDDGPVVCQVEHPAVTGNLQTVLEQYKPVQHIQMTYPLQGLTREGDALEL	263
Qy	266	TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD	325
Db	264	TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD	323
Qy	326	YMLVYDPPPTIPPTTT	385
Db	324	YMLVYDPPPTIPPTTT	383
Qy	386	FAMLCLLIILGRYFARKGTGYTFHEAKGADDAADTAIINAEQGQNNSEKKEYFI	442
Db	384	FAMLCLLIILGRYFARKGTGYTFHEAKGADDAADTAIINAEQGQNNSEKKEYFI	440

RESULT 19

ABU82722

ID ABU82722 standard; protein; 440 AA.

XX AC ABU82722;

XX AC ABU82722;

DT 27-JUN-2003 (first entry)

XX Human PRO polypeptide #17.

DE Human; PRO polypeptide; secreted and transmembrane protein; tumour;

KW chromosome mapping; gene mapping; cytostatic.

XX Homo sapiens.

XX US2003032113-A1.

XX 13-FEB-2003.

XX 20-JUN-2002; 2002US-00176911.

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PR	18-SEP-1997;	97US-0059263P.
PR	18-SEP-1997;	97US-0059266P.
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PR	21-OCT-1997;	97US-0063486P.
PR	24-OCT-1997;	97US-0063120P.
PR	28-OCT-1997;	97US-0063121P.
PR	28-OCT-1997;	97US-0063540P.
PR	28-OCT-1997;	97US-0063541P.
PR	28-OCT-1997;	97US-0063544P.
PR	28-OCT-1997;	97US-0063564P.
PR	29-OCT-1997;	97US-0063734P.
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PR	11-JUN-1998;	98US-0088861P.	PR	17-SEP-1998;	98US-0100684P.
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PR	02-JUL-1998;	98US-0091478P.	QY	86	FEDPRPLKDSRFOLLNFSSELKVSILTNVSI SDSGRYFCOLYTDPPQESYTTITVLVPPR 145
PR	02-JUL-1998;	98US-0091486P.	DB	84	FDFRPLKDSRFOLLNFSSELKVSILTNVSI SDSGRYFCOLYTDPPQESYTTITVLVPPR 143
PR	02-JUL-1998;	98US-0091626P.	QY	146	NLMIDIQKDTAVEGEEIEVNCCTAMASKPATTIRWFKGNTLKGKSEVEEWSMDMYTTSOL 205
PR	02-JUL-1998;	98US-0091628P.	DB	144	NLMIDIQKDTAVEGEEIEVNCCTAMASKPATTIRWFKGNTLKGKSEVEEWSMDMYTTSOL 203
PR	02-JUL-1998;	98US-0091632P.	QY	206	MLKVHKEDDGPVICOVEHPAVTGNLQORYLEVQYKPOVHI QMTYPLQGLTREGDALEL 265
PR	24-JUL-1998;	98US-0094006P.	DB	204	MLKVHKEDDGPVICOVEHPAVTGNLQORYLEVQYKPOVHI QMTYPLQGLTREGDALEL 263
PR	04-AUG-1998;	98US-0095282P.	QY	266	TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
PR	10-AUG-1998;	98US-0095998P.	DB	264	TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
PR	10-AUG-1998;	98US-0096012P.	QY	326	YMLYVYDPTTIPPPPTTT 385
PR	17-AUG-1998;	98US-0096757P.	DB	324	YMLYVYDPTTIPPPPTTT 383
PR	17-AUG-1998;	98US-0096766P.	QY	386	FAMLCLLIILGRYFARHKGTFTTHEAKGADDAADATATINAEQQNNSEKKEYFI 442
PR	17-AUG-1998;	98US-0096867P.	DB	384	FAMLCLLIILGRYFARHKGTFTTHEAKGADDAADATATINAEQQNNSEKKEYFI 440
PR	17-AUG-1998;	98US-0096891P.			
PR	17-AUG-1998;	98US-0096897P.			
PR	18-AUG-1998;	98US-0096949P.			
PR	18-AUG-1998;	98US-0096959P.			
PR	18-AUG-1998;	98US-0097022P.			
PR	26-AUG-1998;	98US-0097952P.			
PR	26-AUG-1998;	98US-0097954P.			
PR	26-AUG-1998;	98US-0097955P.			
PR	26-AUG-1998;	98US-0097971P.			
PR	26-AUG-1998;	98US-0097974P.			
PR	26-AUG-1998;	98US-0098014P.			
PR	01-SEP-1998;	98US-0098716P.			
PR	01-SEP-1998;	98US-0098723P.			
PR	02-SEP-1998;	98US-0098803P.			
PR	02-SEP-1998;	98US-0098821P.			
PR	02-SEP-1998;	98US-0098843P.			
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PR	10-SEP-1998;	98US-0099741P.			
PR	10-SEP-1998;	98US-0099754P.			
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PR	10-SEP-1998;	98US-0099812P.			
RESULT 20					
ABU89843					
ID ABU89843 standard; protein; 440 AA.					
XX					

AC ABUS9843;
XX
DT 11-AUG-2003 (first entry)
XX
XX Novel human secreted and transmembrane protein PRO355.
XX
XX Human; gene therapy; tissue typing; tumour; chondrocyte proliferation;
KW chondrocyte differentiation; tumour necrosis factor-alpha release;
KW affinity purification.
XX
XX Homo sapiens.
XX
XX US2003036147-A1.
PN
XX
PD 20-FEB-2003.
- XX
PF
PF 02-JUL-2002; 2002US-00187741.
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PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.

PR	18-AUG-1998;	98US-0096959P.	QY	266	TCEAIGKQPQVMVTVRVDDMPQHAVLGGPNLFINLNKNTDNGTYRCEASNTVGRAHSD	325
PR	18-AUG-1998;	98US-0097022P.	Db	264	TCEAIGKQPQVMVTVRVDDMPQHAVLGGPNLFINLNKNTDNGTYRCEASNTVGRAHSD	323
PR	26-AUG-1998;	98US-0097952P.				
PR	26-AUG-1998;	98US-0097954P.				
PR	26-AUG-1998;	98US-0097955P.	QY	326	YMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEEGSIRAVDHAVIGGVAVVV	385
PR	26-AUG-1998;	98US-0097971P.	Db	324	YMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEEGSIRAVDHAVIGGVAVVV	383
PR	26-AUG-1998;	98US-0097974P.				
PR	01-SEP-1998;	98US-0098014P.	QY	386	FAMLCILLIILGRYPARHKGTYFTHEAKGADDAADADTAIINAEAGGQNNSEKKEYFI	442
PR	01-SEP-1998;	98US-0098716P.	Db	384	FAMLCILLIILGRYPARHKGTYFTHEAKGADDAADADTAIINAEAGGQNNSEKKEYFI	440
PR	01-SEP-1998;	98US-0098723P.				
PR	02-SEP-1998;	98US-0098803P.				
PR	02-SEP-1998;	98US-0098821P.				
PR	02-SEP-1998;	98US-0098843P.				
PR	09-SEP-1998;	98US-0099602P.				
PR	10-SEP-1998;	98US-0099741P.				
PR	10-SEP-1998;	98US-0099754P.				
PR	10-SEP-1998;	98US-0099763P.				
PR	10-SEP-1998;	98US-0099812P.				
PR	15-SEP-1998;	98US-0100388P.				
PR	16-SEP-1998;	98US-0100662P.				
PR	16-SEP-1998;	98US-0100664P.				
PR	16-SEP-1998;	98US-0101751P.				
PR	16-SEP-1998;	98US-0101751P.				
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PR	17-SEP-1998;	98US-0100683P.				
PR	17-SEP-1998;	98US-0100684P.				
PR	17-SEP-1998;	98US-0100919P.				
PR	17-SEP-1998;	98US-0100930P.				
PR	18-SEP-1998;	98US-0100849P.				
PR	18-SEP-1998;	98US-0101014P.				
PR	18-SEP-1998;	98US-0101068P.				
PR	23-SEP-1998;	98US-0101471P.				
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PR	23-SEP-1998;	98US-0101475P.				
PR	23-SEP-1998;	98US-0101477P.				
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PR	24-SEP-1998;	98US-0101739P.				
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PR	29-SEP-1998;	98US-0102331P.				
PR	30-SEP-1998;	98US-0102487P.				
PR	30-SEP-1998;	98US-0102570P.				
PR	30-SEP-1998;	98US-0102571P.				
PR	01-OCT-1998;	98US-0102684P.				
PR	01-OCT-1998;	98US-0102687P.				
PR	02-OCT-1998;	98US-0102965P.				
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PR	07-OCT-1998;	98US-00168978.				
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Best Local Similarity			100.0%; Pred. No. 0;			
Matches 417; Conservative			0; Mismatches 0; Indels 0; Gaps 0;			
QY	26	LRLLLLFSAALIPDGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY	85			
Db	24	LRLLLLFSAALIPDGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY	83			
QY	86	FRDPRPLKDSRFQNLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPPQESYTTITVLVPPR	145			
Db	84	FRDPRPLKDSRFQNLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPPQESYTTITVLVPPR	143			
QY	146	NLMIDIQKTAVEGEEIEEIVNCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSQ	205			
Db	144	NLMIDIQKTAVEGEEIEEIVNCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSQ	203			
QY	206	MLKVHKEDDGPVTCQVEHPAVTGNLTQRYLEVQYKPVHIOQTYPLQGLTREGDALEL	265			
Db	204	MLKVHKEDDGPVTCQVEHPAVTGNLTQRYLEVQYKPVHIOQTYPLQGLTREGDALEL	263			

RESULT 21
ABR68092
ID ABR68092 standard; protein; 440 AA.
XX ABR68092;
XX 11-AUG-2003 (first entry)
DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnerary; Gene therapy.
XX Homo sapiens.
XX US2003027264-A1.
PD 06-FEB-2003.
XX 18-JUN-2002; 2002US-00174579.
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
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PR 13-NOV-1997; 97US-0065311P.
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PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
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PR 20-MAR-1998; 98US-0078886P.
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PR	04-AUG-1998;	98US-0095282P.	QY	266	TCEAIGKPOPVMVTVWRVDEMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 325
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PR	18-AUG-1998;	98US-0096959P.			
PR	18-AUG-1998;	98US-0097022P.			
PR	26-AUG-1998;	98US-0097952P.			
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Best Local Similarity 94.3%; Score 417; DB 6; Length 440;

Mismatches 417; Conservative 0; Indels 0; Gaps 0;

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85

Db

24

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83

RESULT 26

ABR74859

ID ABR74859 standard; protein; 440 AA.

XX ABR74859;

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DT 10-SEP-2003 (first entry)

XX

DE Human secreted polypeptide PRO355, SEQ ID NO:34.

XX

KW Human; PRO; secreted protein; transmembrane protein;

KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;

KW chondrocyte; proliferation; differentiation; cartilage disorder;

KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;

KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;

KW liver; drug screening; transgenic animal; genetic analysis;

XX antiarthritic; vulnery; gene therapy.

XX Homo sapiens.

XX US2003040056-A1.

PD 27-FEB-2003.

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XX 21-JUN-2002; 2002US-00176916.

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Query Match 94.3%; Score 417; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 28

ABU60240

ID ABU60240 standard; protein; 440 AA.

XX AC ABU60240;

XX DT 24-APR-2003 (first entry)

XX DE Human PRO polypeptide #11.

XX KW Human; PRO; secreted polypeptide; transmembrane polypeptide; cancer;

XX KW inflammatory disease; atherosclerosis; cardiac injury; AIDS; infertility;

XX KW birth defect; premature aging; diabetes; dog; cat; horse;

XX KW acquired immunodeficiency syndrome; cow; sheep; pig; goat; rabbit;

KW industry; cytostatic; antiinflammatory; cardiant; antiinfertility;
KW anti-HIV; antiarteriosclerotic; antidiabetic.
XX Homo sapiens.
XX US2002132768-A1.
XX 19-SEP-2002.
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XX 22-DEC-1998; 98US-00218517.
XX 22-DEC-1998; 98US-0113296P.
XX 03-MAR-1999; 99US-00254311.
XX 22-JUN-1999; 99WO-US012252.
XX 28-JUL-1999; 99US-0146222P.
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XX 30-NOV-1999; 99WO-US028313.
XX 30-NOV-1999; 99WO-US028409.
XX 01-DEC-1999; 99WO-US028301.
XX 16-DEC-1999; 99WO-US030095.
XX 11-FEB-2000; 2000WO-US003565.
XX 22-FEB-2000; 2000WO-US004414.
XX 02-MAR-2000; 2000WO-US005841.
XX 30-MAR-2000; 2000WO-US008439.
XX 22-MAY-2000; 2000WO-US014042.
XX 28-JUL-2000; 2000WO-US020710.
XX 01-DEC-2000; 2000WO-US032678.
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XX 25-MAY-2001; 2001US-00866028.
XX (GETH) GENENTECH INC.
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
XX Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
XX Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas B, Wood WI;
XX WPI; 2003-174088/17.
XX N-PSDB; ABX89477.
XX New secreted and transmembrane polypeptides (e.g. PRO241, for use in
XX pharmaceuticals, diagnostics or bioeffectors, particularly for detecting
XX or treating e.g. cancers, infertility or acquired immunodeficiency
XX syndrome in mammals.
XX Claim 1; Fig 24; 173pp; English.
XX The invention relates to a human secreted and transmembrane polypeptide
XX (PRO) and the polynucleotide encoding it. The PRO polypeptide or
XX polynucleotide is useful in pharmaceuticals, diagnostics, biosensors or
XX bioeffectors. These are particularly useful for detecting or treating
XX cancers, inflammatory diseases, atherosclerosis, cardiac injury,
XX infertility, birth defects, premature aging, acquired immunodeficiency
XX syndrome (AIDS) and diabetic complications in mammals, e.g. humans, dogs,

CC cats, cattle, horses, sheep, pigs, goats or rabbits. The sequences are
CC also useful in biotechnological and medical research and in various
CC industrial applications. Sequences ABU60230-ABU60245 represent human PRO
CC polypeptides of the invention
XX
SQ Sequence 440 AA;
Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLLFSAALIPITGQNLPTKDVTVIEGVATISQVKNKSDSVIOLLNPNRTIY 85
Db 24 LRLLLLLFSAALIPITGQNLPTKDVTVIEGVATISQVKNKSDSVIOLLNPNRTIY 83
Qy 86 FRDPRFKDSRFOLLNPFSSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRFKDSRFOLLNPFSSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGVVICQVEHPAVTGNLQTOQRYLEVQYKQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVVICQVEHPAVTGNLQTOQRYLEVQYKQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVWVTVYRVDDMPQHAVLSGPNLFINNLANKTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVWVTVYRVDDMPQHAVLSGPNLFINNLANKTNDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGGVAVVV 385
Db 324 YMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGGVAVVV 383
Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQQNNSEKKEYFI 440
RESULT 29
ABU85594
ID ABU85594 standard; protein; 440 AA.
XX AC ABU85594;
XX DT 02-JUL-2003 (first entry)
XX DE Human PRO polypeptide #17.
XX KW Human; PRO; secreted polypeptide; transmembrane polypeptide;
KW tumour necrosis factor alpha; TNF-alpha; chondrocyte cell; tumour;
KW cytostatic.
XX OS Homo sapiens.
XX PN US2003036140-A1.
XX PD 20-FEB-2003.
XX PF 01-JUL-2002; 2002US-00187588.
XX PR 26-JUN-1998; 98US-00105413.
XX PR 16-SEP-1998; 98WO-US019330.
XX PR 07-OCT-1998; 98US-00168978.
XX PR 07-OCT-1998; 98WO-US021141.
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XX PR 08-MAR-1999; 99WO-US005028.
XX PR 14-MAY-1999; 99US-00311832.
XX PR 14-MAY-1999; 99WO-US010733.

02-JUN-1999; 99WO-US012252.
 25-AUG-1999; 99US-00380137.
 25-AUG-1999; 99US-00380138.
 25-AUG-1999; 99US-00380139.
 25-AUG-1999; 99US-00380142.
 01-SEP-1999; 99WO-US020111.
 15-SEP-1999; 99WO-US021090.
 18-OCT-1999; 99US-00403297.
 12-NOV-1999; 99US-00423844.
 01-DEC-1999; 99WO-US028301.
 02-DEC-1999; 99WO-US028551.
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 05-JAN-2000; 2000WO-US000219.
 18-FEB-2000; 2000WO-US004341.
 18-FEB-2000; 2000WO-US004342.
 22-FEB-2000; 2000WO-US004414.
 24-FEB-2000; 2000WO-US005004.
 01-MAR-2000; 2000WO-US005601.
 02-MAR-2000; 2000WO-US005841.
 15-MAR-2000; 2000WO-US006884.
 30-MAR-2000; 2000WO-US008439.
 17-MAY-2000; 2000WO-US013705.
 22-MAY-2000; 2000WO-US014042.
 30-MAY-2000; 2000WO-US014941.
 02-JUN-2000; 2000WO-US015264.
 28-JUL-2000; 2000WO-US020710.
 22-AUG-2000; 2000US-00644848.
 24-AUG-2000; 2000WO-US023328.
 18-SEP-2000; 2000US-00664610.
 18-SEP-2000; 2000US-00665350.
 08-NOV-2000; 2000US-00709238.
 08-NOV-2000; 2000WO-US030952.
 01-DEC-2000; 2000WO-US032678.
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 20-DEC-2000; 2000WO-US034956.
 28-FEB-2001; 2001WO-US006520.
 22-MAR-2001; 2001US-00816744.
 10-MAY-2001; 2001US-00854208.
 20-MAY-2001; 2001US-00854280.
 25-MAY-2001; 2001US-00866028.
 01-JUN-2001; 2001WO-US017800.
 05-JUN-2001; 2001US-00874503.
 20-JUN-2001; 2001WO-US019692.
 29-JUN-2001; 2001WO-US021066.
 09-JUL-2001; 2001WO-US021735.
 18-JUL-2001; 2001US-00908827.
 30-JUL-2001; 2001US-00918585.
 06-AUG-2001; 2001US-00924419.
 13-AUG-2001; 2001US-00929404.
 16-AUG-2001; 2001US-00931836.
 28-AUG-2001; 2001US-00941992.
 29-AUG-2001; 2001WO-US027099.
 04-SEP-2001; 2001US-00946374.
 15-JAN-2002; 2002US-00052586.
 (GETH) GENENTECH INC.

Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
 Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
 WPI; 2003-332028/31.
 N-PSDB; ACA72787.

Three hundred and five nucleic acids encoding PRO polypeptides, useful for the manufacture of a medicament for diagnosing or treating tumor.

Claim 11; Fig 34; 707pp; English.

The invention relates to human PRO polypeptides (secreted and transmembrane polypeptides) and the PRO polynucleotides encoding them. The invention also relates to a method for stimulating the release of tumour necrosis factor alpha (TNF-alpha) from human blood by contacting the blood with a sequence of the invention, a method for stimulating the

CC proliferation or differentiation of chondrocyte cells by contacting the
 CC cells with a PRO polypeptide and a method for detecting the presence of a
 CC tumor in a mammal. The polypeptides and polynucleotides are useful for
 CC the manufacture of a medicament for diagnosing or treating a tumour in a
 CC mammal. Sequences ABU85578-ABU85882 represent human PRO polypeptides of
 CC the invention. Note: The sequence data for this patent is also available
 CC in electronic format from USPTO at seqdata.uspto.gov/sequence.html
 XX
 SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 86 FRDFRPLKDSRFQLLNFSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
 |||||
 DB 84 FRDFRPLKDSRFQLLNFSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
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RESULT 30
 ABU98754
 ID ABU98754 standard; protein; 440 AA.
 XX
 AC ABU98754;
 XX
 DT 01-AUG-2003 (first entry)
 XX
 DE Novel human secreted and transmembrane protein PRO355.
 XX
 KW Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
 KW chondrocyte stimulator; tumour; adrenal tumour; lung tumour;
 KW colon tumour; breast tumour; prostate tumour; rectal tumour;
 KW cervical tumour; liver tumour; TNF-alpha release;
 KW tumour necrosis factor alpha release; chondrocyte cell proliferation;
 KW chondrocyte cell differentiation; pharmaceutical; diagnostic; biosensor;
 KW bioreactor.
 XX
 OS Homo sapiens.
 XX
 PN US2003013153-A1.
 XX
 PD 16-JAN-2003.
 XX
 XX 19-JUN-2002; 2002US-00175737.
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 PF 18-SEP-1997; 97US-0059263P.
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Qy 326	YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTITLITDSTRAGEEGSIRAVDHAVIGVAVVV 385
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AC ABU91675;
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DE Novel human secreted and transmembrane protein PRO355.
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KW Human; Gene therapy; chromosome identification; tissue typing.
XX
OS Homo sapiens.
XX
PN US2003027277-A1.
XX
PD 06-FEB-2003.
XX
PF 21-JUN-2002; 2002US-00176985.
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RESULT 33

ABU89368

ID ABU89368 standard; protein; 440 AA.

XX AC ABU89368;

XX DT 09-JUL-2003 (first entry)

XX DE Human PRO polypeptide #17.

XX KW Human; PRO polypeptide; secreted protein; transmembrane protein;

XX KW chromosome mapping; gene mapping; tumour; adrenal; lung; colon; breast;

XX KW prostate; rectal; cervical; liver; cancer; TNF-alpha;

XX KW tumour necrosis factor-alpha; proliferation; differentiation;

XX KW chondrocyte cell; bone disorder; cartilage disorder; sports injury;

XX KW arthritis; cytostatic; antiarthritic; osteopathic.

XX OS Homo sapiens.

XX PN US2003036141-A1.

XX PD 20-FEB-2003.

XX PF 01-JUL-2002; 2002US-00187597.

XX PR 18-SEP-1997; 97US-0059263P.

XX PR 18-SEP-1997; 97US-0059266P.

XX PR 17-OCT-1997; 97US-0062250P.

XX PR 21-OCT-1997; 97US-0063486P.

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PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
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PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
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PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
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PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097852P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
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PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.

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PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.

Query Match          94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLFSAALIPGTGGQNLFTKDVTVIEGEVATISCOVNSKSDSDSVIQLLPNRTIY 85
   |||||
Db 24 LRLLLLLFSAALIPGTGGQNLFTKDVTVIEGEVATISCOVNSKSDSDSVIQLLPNRTIY 83
   |||||

Qy 86 FRDPRPLKDRFQNLNFSSELKSLNVSISDGRYFCOLYTDPPQESYTTIIVLVPPR 145
   |||||
Db 84 FRDPRPLKDRFQNLNFSSELKSLNVSISDGRYFCOLYTDPPQESYTTIIVLVPPR 143
   |||||

Qy 146 NLMTIDIOKDTAVEGEEIEVNCTAMASKPATIRFWKGNTELKSKSEVEEWSMDYVTSQ 205
   |||||
Db 144 NLMTIDIOKDTAVEGEEIEVNCTAMASKPATIRFWKGNTELKSKSEVEEWSMDYVTSQ 203
   |||||

Qy 206 MLKVHKEDDGPVTCVQEHFPAVTGNLOTORYLEVQYKPOVHIQNTYPLQGLTREGDALE 265
   |||||
Db 204 MLKVHKEDDGPVTCVQEHFPAVTGNLOTORYLEVQYKPOVHIQNTYPLQGLTREGDALE 263
   |||||

Qy 266 TCEAIGKQPQVMVTVWVDDMPQHAVLSGPNLFINNLKTDNGTYRCEASNIVGKAHSD 325
   |||||
Db 264 TCEAIGKQPQVMVTVWVDDMPQHAVLSGPNLFINNLKTDNGTYRCEASNIVGKAHSD 323
   |||||

Qy 326 YMLVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
   |||||
Db 324 YMLVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
   |||||

Qy 386 FAMLCLIIILGRYPARKGYFTHEAKGADDAADADTAIINAEQQNNSEKKEYFI 442
   |||||
Db 384 FAMLCLIIILGRYPARKGYFTHEAKGADDAADADTAIINAEQQNNSEKKEYFI 440
   |||||

RESULT 34
ABUS6209
ID ABUS6209 standard; protein; 440 AA.
XX
AC ABUS6209;
XX
DT 01-JUL-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) #17.
XX
KW Human; immunogen; secreted protein; transmembrane protein; PRO; tumour;
KW proliferation; differentiation; chondrocyte cells;
KW tumour necrosis factor-alpha; TNF-alpha; blood; gene therapy.
XX
OS Homo sapiens.
XX
XX US2003036146-A1.
XX
PD 20-FEB-2003.
XX
PF 02-JUL-2002; 2002US-00187603.
XX
XX 26-JUN-1998; 98US-00105413.
PR 16-SEP-1998; 98WO-US019330.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 06-NOV-1998; 98US-00187368.
PR 01-DEC-1998; 98WO-US025108.
PR 07-DEC-1998; 98US-00202054.
PR 03-MAR-1999; 99US-00254311.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 24-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 18-SEP-2000; 2000US-0064610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 28-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 25-MAY-2001; 2001US-00854280.
PR 01-JUN-2001; 2001US-00866028.
PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 03-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 08-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX
PA
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-332034/31.
DR N-PSDB; ACA73401.
XX
XX Three hundred and five nucleic acids encoding PRO polypeptides, useful in
PT gene therapy, chromosome identification, tissue typing, and for detecting
PT the presence of tumor in a mammal.
XX
XX Claim 11; Fig 34; 707pp; English.
XX
XX The invention relates to three hundred and five nucleic acids encoding
CC PRO polypeptides (secreted and transmembrane), sequences 80% identical to
CC them, or encoding a PRO polypeptide lacking its associated signal peptide
CC or an extracellular domain of the PRO polypeptide, with or lacking its
CC associated signal peptide. Also included are the encoded PRO proteins,
CC PRO expression vectors; host cells transformed with the vector (used to
```

CC produce PRO proteins), a chimeric molecule comprising the PRO
 CC polypeptide fused to a heterologous amino acid sequence, an anti-PRO
 CC antibody, a method for stimulating the release of tumor necrosis factor
 CC alpha (TNF-alpha) from human blood (by contacting the blood with PRO1079,
 CC PRO827, PRO791, PRO1131, PRO1316, PRO1183, PRO1343, PRO1760, PRO1567 or
 CC PRO4333), a method for stimulating the proliferation or differentiation
 CC of chondrocyte cells by contacting the cells with a PRO6029 polypeptide,
 CC a method for detecting the presence of tumour in a mammal and an
 CC oligonucleotide probe derived from any of the nucleotide sequences cited
 CC above. The PRO polypeptide or anti-PRO antibody is useful for preparing a
 CC medicament for treating a condition that is responsive to the PRO
 CC polypeptide or anti-PRO antibody. The PRO nucleotide sequences are useful
 CC as hybridisation probes in chromosome and gene mapping, or in generating
 CC antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
 CC polypeptides, in assays to identify other proteins or molecules involved
 CC in a binding reaction, to generate transgenic animals or knockout
 CC animals, which in turn are useful in the development and screening of
 CC therapeutically useful reagents, for chromosome identification, and
 CC tissue typing. The PRO polypeptides and nucleic acid molecules are also
 CC useful for detecting the presence of a tumour in a mammal, stimulating
 CC proliferation or differentiation of chondrocyte cells, stimulating the
 CC release of tumour necrosis factor-alpha from human blood, in gene
 CC therapy, or as molecular weight markers for protein electrophoresis
 CC purposes. The anti-PRO antibodies may be used in diagnostic assays for
 CC PRO, or for the affinity purification of PRO from recombinant cell
 CC culture or natural sources. The present sequence represents a PRO protein
 XX
 SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 26 LRLLLLFSAALPTGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRTIY 85
 Db 24 LRLLLLFSAALPTGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRTIY 83
 Qy 86 FRDPRPLKDSRFQNLNFSSELKVLNVSISDEGRYFCQLYTPDPQESYTTITVLVPPR 145
 Db 84 FRDPRPLKDSRFQNLNFSSELKVLNVSISDEGRYFCQLYTPDPQESYTTITVLVPPR 143
 Qy 146 NLMDIDQKDAVEGEETVNCNTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
 Db 144 NLMDIDQKDAVEGEETVNCNTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203
 Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQHQMITYPLQGLTREGDALEL 265
 Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQHQMITYPLQGLTREGDALEL 263
 Qy 266 TCEAIGKQPQVMTWVRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
 Db 264 TCEAIGKQPQVMTWVRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
 Qy 326 YMLVYDPPPTIPPTTT 385
 Db 324 YMLVYDPPPTIPPTTT 383
 Qy 386 FAMILCLLIILGRYFARHKGTGYTFHEAKGADDAADTAIINAEQQNNSEKKEYFI 442
 Db 384 FAMILCLLIILGRYFARHKGTGYTFHEAKGADDAADTAIINAEQQNNSEKKEYFI 440

RESULT 35
 ABU67422

ID ABU67422 standard; protein; 440 AA.

XX AC ABU67422;

XX DT 29-MAY-2003 (first entry)

XX DE Human secreted/transmembrane protein (PRO) #17.

XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;

KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
 XX tissue typing.

XX Homo sapiens.

XX US2003036162-A1.

XX PD 20-FEB-2003.

XX PF 12-JULI-2002; 2002US-00194423.

XX PR 26-JUN-1998; 98US-00105413.

XX PR 16-SEP-1998; 98WO-US019330.

XX PR 07-OCT-1998; 98US-00168978.

XX PR 07-OCT-1998; 98WO-US021141.

XX PR 06-NOV-1998; 98US-00187368.

XX PR 01-DEC-1998; 98WO-US025108.

XX PR 07-DEC-1998; 98US-00202054.

XX PR 03-MAR-1999; 99US-00254311.

XX PR 08-MAR-1999; 99WO-US005028.

XX PR 14-MAY-1999; 99US-00311832.

XX PR 14-MAY-1999; 99WO-US010733.

XX PR 02-JUN-1999; 99US-0012252.

XX PR 25-AUG-1999; 99US-00380137.

XX PR 25-AUG-1999; 99US-00380138.

XX PR 25-AUG-1999; 99US-00380139.

XX PR 01-SEP-1999; 99WO-US020111.

XX PR 15-SEP-1999; 99WO-US021090.

XX PR 18-OCT-1999; 99US-00403297.

XX PR 12-NOV-1999; 99US-00423844.

XX PR 02-DEC-1999; 99WO-US028301.

XX PR 02-DEC-1999; 99WO-US028551.

XX PR 30-DEC-1999; 99WO-US031274.

XX PR 05-JAN-2000; 2000WO-US000219.

XX PR 18-FEB-2000; 2000WO-US004341.

XX PR 18-FEB-2000; 2000WO-US004342.

XX PR 22-FEB-2000; 2000WO-US004414.

XX PR 24-FEB-2000; 2000WO-US005004.

XX PR 01-MAR-2000; 2000WO-US005601.

XX PR 02-MAR-2000; 2000WO-US005841.

XX PR 15-MAR-2000; 2000WO-US006884.

XX PR 30-MAR-2000; 2000WO-US008439.

XX PR 17-MAY-2000; 2000WO-US013705.

XX PR 22-MAY-2000; 2000WO-US014042.

XX PR 30-MAY-2000; 2000WO-US014941.

XX PR 02-JUN-2000; 2000WO-US015264.

XX PR 28-JUL-2000; 2000WO-US020710.

XX PR 22-AUG-2000; 2000US-00644848.

XX PR 24-AUG-2000; 2000WO-US023328.

XX PR 18-SEP-2000; 2000US-00664610.

XX PR 18-SEP-2000; 2000US-00665350.

XX PR 08-NOV-2000; 2000US-00709238.

XX PR 08-NOV-2000; 2000WO-US030952.

XX PR 01-DEC-2000; 2000WO-US032678.

XX PR 20-DEC-2000; 2000US-00747259.

XX PR 28-FEB-2001; 2001WO-US034956.

XX PR 22-MAR-2001; 2001US-00816744.

XX PR 10-MAY-2001; 2001US-00854208.

XX PR 10-MAY-2001; 2001US-00854280.

XX PR 25-MAY-2001; 2001US-00866028.

XX PR 01-JUN-2001; 2001WO-US017800.

XX PR 05-JUN-2001; 2001US-00874503.

XX PR 20-JUN-2001; 2001WO-US019692.

XX PR 29-JUN-2001; 2001WO-US021066.

XX PR 09-JUL-2001; 2001WO-US021735.

XX PR 18-JUL-2001; 2001US-00908827.

XX PR 30-JUL-2001; 2001US-00918585.

XX PR 06-AUG-2001; 2001US-00924419.

XX PR 13-AUG-2001; 2001US-00929404.

XX PR 16-AUG-2001; 2001US-00931836.

XX PR 28-AUG-2001; 2001US-00941992.

PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX (GETH) GENENTECH INC.
PA Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-332039/31.
DR N-PSDB; ACA05716.
XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful
PT in gene therapy, in chromosome and gene mapping, as chromosome markers,
PT in tissue typing, and in chromosome identification.
XX Claim 11; Fig 34; 706pp; English.
XX The invention discloses human nucleic acids encoding secreted and
CC transmembrane (PRO) polypeptides. Also disclosed is an antibody that
CC specifically binds to the PRO polypeptide, a method for stimulating the
CC release of tumour necrosis factor alpha (TNF-alpha) from human blood by
CC contacting the blood a PRO polypeptide, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells by contacting the
CC cells with a PRO polypeptide, a method for detecting the presence of a
CC tumour in a mammal and an oligonucleotide probe derived from any of the
CC PRO nucleotide sequences. The nucleotide sequences are useful as probes,
CC in chromosome and gene mapping, in generating antisense RNA and DNA, in
CC preparing PRO polypeptides by recombinant techniques and in gene therapy
CC (e.g. for replacement of defective gene). The PRO polypeptides are useful
CC as molecular weight markers for protein electrophoresis purposes, for
CC chromosome identification, as chromosome markers, as therapeutic agents,
CC for stimulating the release of TNF-alpha from human blood, for
CC stimulating the proliferation or differentiation of chondrocytes and
CC detecting the presence of a tumour. The PRO polypeptides and nucleic
CC acids may also be used diagnostically for tissue typing. The sequences
CC presented in ABU67406-ABU67710 are the PRO polypeptides of the invention
XX Sequence 440 AA;
S Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLFSAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 85
Db 24 LRLLLLFSAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 83
Qy 86 FRDFRPLKDSRFQLLNFSSSELKVSILNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDFRPLKDSRFQLLNFSSSELKVSILNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMTIDIOKDTAVEGEEIEVNTAMASKPATIRNFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMTIDIOKDTAVEGEEIEVNTAMASKPATIRNFKGNTELKKGSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGPVNLCOVEHPAVTGNLQTVLEVYKPVQHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVNLCOVEHPAVTGNLQTVLEVYKPVQHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNVGKAHSD 323
Qy 326 YMLVYDPPTTIPPTTT 385
Db 324 YMLVYDPPTTIPPTTT 383
Qy 386 FAMILCLLIILGRYPARKGTVFTEAKGADDAADTAIINAEQQNNSEKKEYFI 442
Db 384 FAMILCLLIILGRYPARKGTVFTEAKGADDAADTAIINAEQQNNSEKKEYFI 440

RESULT 36
ABU80450
ID ABU80450 standard; protein; 440 AA.
XX
AC ABU80450;
XX
DT 23-JUN-2003 (first entry)
XX
DE Human PRO protein #17.
XX
KW Human; tumour; adrenal; lung; colon; breast; prostate; rectal; cervical;
KW liver; PRO; gene therapy.
XX
OS Homo sapiens.
XX
PN US2003036137-A1.
XX
PD 20-FEB-2003.
XX
XX 27-JUN-2002; 2002US-00184640.
XX
PR 26-JUN-1998; 98US-00105413.
PR 16-SEP-1998; 98WO-US019330.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 06-NOV-1998; 98US-00187368.
PR 01-DEC-1998; 98WO-US025108.
PR 07-DEC-1998; 98US-00202054.
PR 03-MAR-1999; 99US-00254311.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 98US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004342.
PR 24-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US005884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 08-NOV-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00866028.
PR 01-JUN-2001; 2001WO-US017800.

PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 18-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX
XX (GETH) GENENTECH INC.
PA
XX Baker KP, Chen J, Deanyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
PI
XX WPI; 2003-342039/32.
DR N-PSDB; ACA66550.
XX
XX Three hundred and five nucleic acids encoding secreted and transmembrane
PT PRO polypeptides, useful for the diagnosis, prevention and/or treatment
PT of tumors, such as adrenal, lung, colon, breast, prostate, rectal,
PT cervical or liver tumors.
XX
XX Claim 11; Fig 34; 708pp; English.

XX The invention relates to three hundred and five nucleic acids encoding
CC PRO polypeptides (secreted and transmembrane). Methods and compositions
CC of the present invention are useful for the diagnosis, prevention and/or
CC treatment of tumors, such as adrenal, lung, colon, breast, prostate,
CC rectal, cervical or liver tumors. The PRO polypeptides are also useful
CC as molecular weight markers, or for chromosome identification. The PRO
CC genes are useful as hybridisation probes, or for screening libraries of
CC human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC therapy, particularly for replacing a defective gene. The present
CC sequence represents a human PRO polypeptide of the invention
XX
SQ Sequence 440 AA;

Query Match 94.38; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVNSKSDSDSVIQLLNPRTIY 85
DB 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVNSKSDSDSVIQLLNPRTIY 83
QY 86 FRDPRPKDSRFQLLNPFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 145
DB 84 FRDPRPKDSRFQLLNPFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 143
QY 146 NLMDIQDQTAVERGEELVNVCTAMASKPATIRWFKGNTLKGKSEVEEWSMDYTVTSOL 205
DB 144 NLMDIQDQTAVERGEELVNVCTAMASKPATIRWFKGNTLKGKSEVEEWSMDYTVTSOL 203
QY 206 MLKVHKEDDGPVLCQVEHPAVTGNLTQRYLEVQYKPVHIOQNTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVLCQVEHPAVTGNLTQRYLEVQYKPVHIOQNTYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNPLFINLNKTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNPLFINLNKTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLVYDPPPTTIPPTTT 385
DB 324 YMLVYDPPPTTIPPTTT 383
QY 386 FAMILCLLIILGRYFARHKGYFTFHEAKGADDAADADTAIINAEQQNNSEKKEYFI 442
DB 384 FAMILCLLIILGRYFARHKGYFTFHEAKGADDAADADTAIINAEQQNNSEKKEYFI 440

RESULT 37

ABR99368
XX ABR99368 standard; protein; 440 AA.
AC ABR99368;
XX
DT 18-SEP-2003 (first entry)
DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX
KW KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnerary; gene therapy.
XX
OS Homo sapiens.
XX
XX US2003040063-A1.
PN
XX
PD 27-FEB-2003.
XX
PF 26-JUN-2002; 2002US-00183006.
XX
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 28-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
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PR 13-NOV-1997; 97US-0065311P.
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PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
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PR 11-MAR-1998; 98US-0077649P.
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PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
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PR 01-APR-1998; 98US-0080327P.
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PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.

PR	05-MAY-1998;	98US-0084366P.	PR	24-JUL-1998;	98US-0094006P.
PR	06-MAY-1998;	98US-0084414P.	PR	04-AUG-1998;	98US-0095282P.
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PR	22-MAY-1998;	98US-0086486P.	PR	18-AUG-1998;	98US-0096959P.
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PR	28-MAY-1998;	98US-0087208P.	PR	26-AUG-1998;	98US-0097952P.
PR	02-JUN-1998;	98US-0087609P.	PR	26-AUG-1998;	98US-0097954P.
PR	03-JUN-1998;	98US-0087759P.	PR	26-AUG-1998;	98US-0097955P.
PR	03-JUN-1998;	98US-0087827P.	PR	26-AUG-1998;	98US-0097971P.
PR	04-JUN-1998;	98US-0088025P.	PR	26-AUG-1998;	98US-0097974P.
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PR	04-JUN-1998;	98US-0088326P.	PR	02-SEP-1998;	98US-0098821P.
PR	05-JUN-1998;	98US-0088167P.	PR	02-SEP-1998;	98US-0098843P.
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PR	05-JUN-1998;	98US-0088217P.	PR	10-SEP-1998;	98US-0099754P.
PR	09-JUN-1998;	98US-0088655P.	PR	10-SEP-1998;	98US-0099763P.
PR	10-JUN-1998;	98US-0088722P.	PR	10-SEP-1998;	98US-0099812P.
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PR	10-JUN-1998;	98US-0088740P.	PR	16-SEP-1998;	98US-0100662P.
PR	10-JUN-1998;	98US-0088811P.	PR	16-SEP-1998;	98US-0100664P.
PR	10-JUN-1998;	98US-0088825P.	PR	16-SEP-1998;	98US-0101751P.
PR	10-JUN-1998;	98US-0088826P.	PR	16-SEP-1998;	98WO-US019330.
PR	11-JUN-1998;	98US-0088861P.	PR	17-SEP-1998;	98US-0100683P.
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PR	11-JUN-1998;	98US-0088876P.	PR	17-SEP-1998;	98US-0100919P.
PR	12-JUN-1998;	98US-0089090P.	PR	17-SEP-1998;	98US-0100930P.
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PR	16-JUN-1998;	98US-0089512P.	PR	18-SEP-1998;	98US-0101014P.
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PR	17-JUN-1998;	98US-0089958P.	PR	23-SEP-1998;	98US-0101472P.
PR	17-JUN-1998;	98US-0089953P.	PR	23-SEP-1998;	98US-0101475P.
PR	18-JUN-1998;	98US-0089908P.	PR	23-SEP-1998;	98US-0101477P.
PR	19-JUN-1998;	98US-0089952P.	PR	24-SEP-1998;	98US-0101738P.
PR	22-JUN-1998;	98US-0090246P.	PR	24-SEP-1998;	98US-0101739P.
PR	22-JUN-1998;	98US-0090252P.	PR	24-SEP-1998;	98US-0101743P.
PR	24-JUN-1998;	98US-0090429P.	PR	24-SEP-1998;	98US-0101922P.
PR	24-JUN-1998;	98US-0090435P.	PR	25-SEP-1998;	98US-0101786P.
PR	24-JUN-1998;	98US-0090444P.	PR	29-SEP-1998;	98US-0102207P.
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PR	24-JUN-1998;	98US-0090535P.	PR	29-SEP-1998;	98US-0102330P.
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PR	25-JUN-1998;	98US-0090676P.	PR	30-SEP-1998;	98US-0102487P.
PR	25-JUN-1998;	98US-0090678P.	PR	30-SEP-1998;	98US-0102570P.
PR	25-JUN-1998;	98US-0090688P.	PR	30-SEP-1998;	98US-0102571P.
PR	25-JUN-1998;	98US-0090690P.	PR	01-OCT-1998;	98US-0102684P.
PR	25-JUN-1998;	98US-0090694P.	PR	01-OCT-1998;	98US-0102687P.
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PR	25-JUN-1998;	98US-0090696P.			
PR	26-JUN-1998;	98US-00105413.			
PR	26-JUN-1998;	98US-0090862P.			
PR	26-JUN-1998;	98US-0090863P.			
PR	26-JUN-1998;	98US-0091010P.			
PR	01-JUL-1998;	98US-0091359P.			
PR	01-JUL-1998;	98US-0091544P.			
PR	02-JUL-1998;	98US-0091478P.			
PR	02-JUL-1998;	98US-0091486P.			
PR	02-JUL-1998;	98US-0091626P.			
PR	02-JUL-1998;	98US-0091628P.			
PR	02-JUL-1998;	98US-0091632P.			
Query Match					94.3%; Score 417; DB 6; Length 440;
Best Local Similarity					100.0%; Pred. No. 0;
Matches 417; Conservative					0; Mismatches 0; Indels 0; Gaps 0;
Qy	26	LRLLLLLFAAALPTG	26	LRLLLLLFAAALPTG	85
Db	24	LRLLLLLFAAALPTG	24	LRLLLLLFAAALPTG	83
Qy	86	FRDFRPLKDSR	86	FRDFRPLKDSR	145
Db	84	FRDFRPLKDSR	84	FRDFRPLKDSR	143
Qy	146	NLMIDIQKOTAVEGE	146	NLMIDIQKOTAVEGE	205

Db	144	NLMIDIQKDTAVGEETEVNCTAWAKPATTIRFWKGNTELGKSKSEVEHSMDYTTVTSQ	PR 31-MAR-1998;
Qy	206	MLKVHKEDDDGVPVICQVEHPAVTGNLTQRYLEVQYKQPQVHIQMTYPLQGLTREGDALEL	PR 31-MAR-1998;
Db	204	MLKVHKEDDDGVPVICQVEHPAVTGNLTQRYLEVQYKQPQVHIQMTYPLQGLTREGDALEL	PR 01-APR-1998;
Qy	266	TCEAIGKQPQVMWTVRVDDMPQHVLSPGNLFINNKNKTNDNGTYRCEASNIVGKAHSD	PR 01-APR-1998;
Db	264	TCEAIGKQPQVMWTVRVDDMPQHVLSPGNLFINNKNKTNDNGTYRCEASNIVGKAHSD	PR 08-APR-1998;
Qy	326	YMLYVVDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGVAVVV	PR 08-APR-1998;
Db	324	YMLYVVDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGVAVVV	PR 09-APR-1998;
Qy	386	FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADADTAIINASGGQNNSEKKEYFI	PR 15-APR-1998;
Db	384	FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADADTAIINASGGQNNSEKKEYFI	PR 15-APR-1998;
RESULT 38			
ABR98758	ID	ABR98758 standard; protein; 440 AA.	PR 21-APR-1998;
XX	AC	ABR98758;	PR 21-APR-1998;
XX	DT	17-SEP-2003 (first entry)	PR 22-APR-1998;
XX	DE	Human secreted polypeptide PRO355, SEQ ID NO:34.	PR 22-APR-1998;
XX	KW	Human; PRO; secreted protein; transmembrane protein;	PR 22-APR-1998;
XX	KW	extracellular domain; tumour necrosis factor-alpha; TNF-alpha;	PR 22-APR-1998;
XX	KW	chondrocyte; proliferation; differentiation; cartilage disorder;	PR 22-APR-1998;
XX	KW	bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;	PR 22-APR-1998;
XX	KW	adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;	PR 22-APR-1998;
XX	KW	liver; drug screening; transgenic animal; genetic analysis;	PR 22-APR-1998;
XX	KW	antiarthritic; vulnerary; gene therapy.	PR 22-APR-1998;
OS	XX	Homo sapiens.	PR 22-APR-1998;
PN	XX	US2003040064-A1.	PR 22-APR-1998;
PN	XX	27-FEB-2003.	PR 22-APR-1998;
PD	XX	26-JUN-2002; 2002US-00183008.	PR 22-APR-1998;
PF	XX	18-SEP-1997; 97US-0059263P.	PR 22-APR-1998;
PF	XX	18-SEP-1997; 97US-0059266P.	PR 22-APR-1998;
PF	XX	17-OCT-1997; 97US-0062250P.	PR 22-APR-1998;
PF	XX	21-OCT-1997; 97US-0063486P.	PR 22-APR-1998;
PF	XX	24-OCT-1997; 97US-0063120P.	PR 22-APR-1998;
PF	XX	24-OCT-1997; 97US-0063121P.	PR 22-APR-1998;
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PF	XX	29-OCT-1997; 97US-0063734P.	PR 22-APR-1998;
PF	XX	31-OCT-1997; 97US-0063870P.	PR 22-APR-1998;
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PF	XX	12-DEC-1997; 97US-0069425P.	PR 22-APR-1998;
PF	XX	17-DEC-1997; 97US-0069870P.	PR 22-APR-1998;
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PR	25-JUN-1998;	98US-0090678P.
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PR	26-AUG-1998;	98US-0097952P.
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PR	18-SEP-1998;	98US-0101014P.
PR	18-SEP-1998;	98US-0101068P.
PR	23-SEP-1998;	98US-0101471P.
PR	23-SEP-1998;	98US-0101472P.
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PR	24-SEP-1998;	98US-0101743P.
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PR	25-SEP-1998;	98US-0102240P.
PR	29-SEP-1998;	98US-0102330P.
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Db	24	LRLLLLLFAAALIPGTGGQNLPTKDVTVIEGVAATISQVKNKSDSDSVIQLLNPRTIY 83
Qy	86	FRDFRPLKDSRFQLLNFSSELKVSLSNTVNSISDEGRYFCQLYTDPPEQESYTTITVLVPPR 145
Db	84	FRDFRPLKDSRFQLLNFSSELKVSLSNTVNSISDEGRYFCQLYTDPPEQESYTTITVLVPPR 143
Qy	146	NLMIDIQKDTAVEGEEIEVNCNTAMASKPATITRWFKNTELKSGKSEVEEWSDMYTVTSOL 205
Db	144	NLMIDIQKDTAVEGEEIEVNCNTAMASKPATITRWFKNTELKSGKSEVEEWSDMYTVTSOL 203
Qy	206	MLKVHKEDDGPVICQVEHPAVTGNLQTORYLEVQVKPOVHIQMTYPLQGLTREGDALEL 265
Db	204	MLKVHKEDDGPVICQVEHPAVTGNLQTORYLEVQVKPOVHIQMTYPLQGLTREGDALEL 263
Qy	266	TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINNKNKTNDNGTYRCEASNIVGKAHSD 325
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Qy	326	YMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGVAVVV 385
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Qy	386	FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGQNNSEKKEYFI 442
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AC	ABO16281;	
XX	25-AUG-2003 (first entry)	
DT	Human secreted/transmembrane protein (PRO) #17.	
XX	Human; secreted and transmembrane protein; PRO; TNF-alpha;	
KW	tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;	
KW	tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;	
XX	prostate tumour; rectal tumour; cervical tumour; liver tumour.	
XX	Homo sapiens.	
OS	US2003027267-A1.	
PN	06-FEB-2003.	
XX	19-JUN-2002; 2002US-00175739.	
XX	18-SEP-1997; 97US-0059263P.	
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Best Local Similarity 100.0%; Pred. No. 0;			
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	26	LRLLLLLSAAALIPTGDGQNLFTKQVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY	85
Db	24	LRLLLLLSAAALIPTGDGQNLFTKQVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY	83
Qy	86	FRDPRPLKDSRFQLLNFSSELKVLSTNVISDEGRYFCQLYTDPPQESYTTITVLVPPR	145
Db	84	FRDPRPLKDSRFQLLNFSSELKVLSTNVISDEGRYFCQLYTDPPQESYTTITVLVPPR	143
Qy	146	NLMIDIOKDTAVEGEETVNCNTAMASKPATIRWFKGNTLKGKSEVEWSDMYTTSOL	205
Db	144	NLMIDIOKDTAVEGEETVNCNTAMASKPATIRWFKGNTLKGKSEVEWSDMYTTSOL	203
Qy	206	MLKVHKEDDGPVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDALEL	265
Db	204	MLKVHKEDDGPVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDALEL	263
Qy	266	TCEAIGHKQPQVMVTVWVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD	325
Db	264	TCEAIGHKQPQVMVTVWVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD	323
Qy	326	YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGSIKRAVDHAVIGVAVVV	385
Db	324	YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGSIKRAVDHAVIGVAVVV	383
Qy	386	FAMLCLLIILGRYPFARHKGTFTTHEAKGADDAADATTAIINAEQQNNSEKKEYFI	442
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KW	extracellular domain; tumour necrosis factor-alpha; TNF-alpha;		
KW	chondrocyte; proliferation; differentiation; cartilage disorder;		
KW	bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;		
KW	adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;		
KW	liver; drug screening; transgenic animal; genetic analysis;		
KW	antiarthritic; vulnery; gene therapy.		
OS	Homo sapiens.		
XX	XX		

PN	US2003036160-A1.	
XX	XX	
PD	20-FEB-2003.	
XX	XX	
PF	02-JUL-2002;	2002US-00189781.
XX	XX	
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PR 01-OCT-1998; 98US-0102684P.
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Query Match 94.3%; Score 417; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLFSAALIPGTGQNLTKDVTVEGEVATISCVNKSDDSVIQLLPNRQTIY 85

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Qy 86 FRDFRPLKDSRFOLLNFSSELKVSJTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145

Db 84 FRDFRPLKDSRFOLLNFSSELKVSJTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMIDIQKDTAVEGEBIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205

Db 144 NLMIDIQKDTAVEGEBIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVYICQVEHPAVTGNLQORYLYVQYKPOVHIQMTYPLQGLTREGDALEL 265

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RESULT 41

ABO18822

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XX 15-APR-1998; 98US-0081195P. PR 25-JUN-1998; 98US-0090690P.
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XX 15-MAY-1998; 98US-0085582P. PR 17-AUG-1998; 98US-0096891P.

CC to PRO. The PRO nucleotide sequences are useful as hybridisation probes,
 CC in chromosome and gene mapping, in generating sense and antisense RNA or
 CC DNA, in generating transgenic or knock-out animals which can be used in
 CC the development and screening of therapeutically useful reagents, and in
 CC gene therapy. The polypeptides may be used as molecular weight markers
 CC for protein electrophoresis purposes. The PRO polypeptides and nucleic
 CC acids may also be used for chromosome identification, and tissue typing.
 CC PRO241 (identified as Chordin) is a candidate gene for Cornelia de Lange
 CC syndrome. Other PRO proteins are variously implicated in immune
 CC disorders, inflammatory disease, organ failure, atherosclerosis, cardiac
 CC injury, infertility, birth defects, premature aging, cardiac injury,
 CC AIDS, cancer and diabetic complications. The present sequence represents
 CC a PRO protein
 XX
 SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;
 Best Local Similarity 100.0%; Pred. NO. 0;
 Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Qy 24 LRLLLLFSAALPTGQGNLFKDVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 83
 Db |||||
 Qy 86 FRDPRPKDSRFQNLNFSSELKVLNVSISDEGRYFCOLYTDPPQESVTTITVLVPPR 145
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 Qy 84 FRDPRPKDSRFQNLNFSSELKVLNVSISDEGRYFCOLYTDPPQESVTTITVLVPPR 143
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 Qy 146 NLMIDIQKDTAVEGEEIEVNCTAMASKPATIRWFGKNTLKGKSEVEEWSDMYTVTSOL 205
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 Qy 206 MLKVHKEDDGPVTCQVEHPAVTGNLQRYLEVQYKPVHIOQNTYPLQGLTREGDALEL 265
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 Qy 326 YMLYVDPPTTIPPTTT 385
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 Qy 324 YMLYVDPPTTIPPTTT 383
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 Qy 386 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAI NAEGQNNSEKKEYFI 442
 Db |||||
 Qy 384 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAI NAEGQNNSEKKEYFI 440
 Db |||||

RESULT 44
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 ID ABU84979 standard; protein; 440 AA.
 XX
 AC ABU84979;
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 DT 30-JUN-2003 (first entry)
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 XX Novel human secreted and transmembrane protein PRO355.
 DE
 KW Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
 KW chondrocyte stimulator; chromosome mapping; gene mapping;
 KW transgenic animal; knock-out animal; tumour.
 XX
 OS Homo sapiens.
 XX
 PN US2003032114-A1.
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 PD 13-FEB-2003.
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 XX 20-JUN-2002; 2002US-00176919.
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 XX 18-SEP-1997; 97US-0059263P.
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Query Match 94.3%; Score 417; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 417; Conservative 0;

QY 26 LRLLLLSAALIPGTGDNLFKDVTVIEGEVATISQVKNKSDSVIQLNPNQTIY 85

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QY 86 FRDPRPKDSRFOLLNFSSELKVSITNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 145

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QY 146 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEWSDMYTTSOL 205

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QY 206 MLKVHKEDDGPVICQVEHPAVTGNLQORYLEVQYKPOVHIQMTYPLQGLTREGDALEL 265

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QY 326 YMLYVYDPPPTTIPPPPTTT 395

Db 324 YMLYVYDPPPTTIPPPPTTT 383

QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQQNNSEKKEYFI 442

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RESULT 45

ABO00118

ID ABO00118 standard; protein; 440 AA.

XX ABO00118;

XX ABO00118;

DT 06-AUG-2003 (first entry)

XX Novel human secreted and transmembrane protein PRO355.
DE Human; gene therapy; tumour necrosis factor alpha; TNF-alpha;
XX chondrocyte stimulation; tumour; tissue typing.
KW Homo sapiens.
XX
PN US2003032101-A1.
XX
PD 13-FEB-2003.
XX
XX 17-JUN-2002; 2002US-00173695.
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PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
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XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WJ;
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XX WPI; 2003-198285/19.
DR N-PSDB; ABX78468.
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XX New isolated PRO polypeptide and encoding nucleic acids, useful for the
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PT atherosclerosis, cardiac injury, infertility, AIDS, cancer and diabetic
PT complications.
XX
XX Claim 12; Fig 24; 171pp; English.
XX
XX The invention describes a novel isolated PRO polypeptide. The methods and
CC compositions of the present invention are useful for the diagnosis and
CC treatment of disorders such as inflammatory disease, organ failure,
CC atherosclerosis, cardiac injury, infertility, birth defects, premature
CC aging, AIDS, cancer, diabetic complications and mutations in general.
CC This is the amino acid sequence of a novel human secreted PRO protein
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KW chondrocyte proliferation; chondrocyte differentiation; tumour detection;
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Best Local Similarity 100.0%; Pred. No. 0;

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KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
XX
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XX
PN US2003027275-A1.
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PD 06-FEB-2003.
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Mismatches

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Gaps

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PR 15-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 99US-00403297.
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PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
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PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
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PR 10-MAY-2001; 2001US-00854208.
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PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 18-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
PA (GETH ) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-402071/38.
DR N-PSDB; ACD25374.
XX
XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful
PT in gene therapy, chromosome identification, tissue typing, for detecting
PT the presence of tumor in a mammal, or as hybridization probes in gene
PT mapping.
XX
XX Claim 11; Fig 34; 707pp; English.
XX
XX The invention describes a novel isolated PRO polypeptide. The PRO
CC polypeptide or anti-PRO antibody is useful for preparing a medicament for
CC treating a condition that is responsive to the PRO polypeptide or anti-
CC PRO antibody. The PRO nucleotide sequences are useful as hybridisation
CC probes in chromosome and gene mapping, or in generating antisense RNA and
CC DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in
CC assays to identify other proteins or molecules involved in binding
CC reaction, to generate transgenic animals or knockout animals, which in
CC turn are useful in the development and screening of therapeutically
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CC useful reagents, for chromosome identification, and tissue typing. The
CC PRO polypeptides and nucleic acid molecules are also useful for detecting
CC the presence of tumour in a mammal, stimulating proliferation or
CC differentiation of chondrocyte cells, stimulating the release of tumour
CC necrosis factor-alpha from human blood, in gene therapy, or as molecular
CC weight markers for protein electrophoresis purposes. The anti-PRO
CC antibodies may be used in diagnostic assays for PRO, or for the affinity
CC purification of PRO from recombinant cell culture or natural sources.
CC This is the amino acid sequence of a novel human secreted and
CC transmembrane PRO polypeptide
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Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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XX DT 25-AUG-2003 (first entry)
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XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
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XX OS Homo sapiens.
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XX PN US2003036123-A1.
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XX PD 20-FEB-2003.
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XX PF 25-JUN-2002; 2002US-00180551.
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XX DE Human secreted polypeptide PRO355, SEQ ID NO:34.
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KW liver tumour; TNF-alpha release; arthritis; tumour necrosis factor alpha;
KW chondrocyte cell; bone disorder; cartilage disorder; sports injury.
XX OS Homo sapiens.
XX PN US2003036156-A1.
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Qy	146	NLMIDIQKOTAVEGEEIEVNCNTAMASKPATTIRWFKGNTLKGKSEVEWSMDMYTTSQ	205

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PR 18-SEP-1998;	98US-0100849P.		
PR 18-SEP-1998;	98US-0101014P.		
PR 18-SEP-1998;	98US-0101068P.		
PR 23-SEP-1998;	98US-0101471P.		
Query Match 94.3%; Score 417; DB 6; Length 440;			
Best Local Similarity 100.0%; Pred. No. 0;			
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY 26	LRLLLLLFSAAALPTGQGNLFTKQVTVIEGEVATISCQVNSKSDSDSVIQLLNPRTIY 85		
DB 24	LRLLLLLFSAAALPTGQGNLFTKQVTVIEGEVATISCQVNSKSDSDSVIQLLNPRTIY 83		
QY 86	FRDPRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145		
DB 84	FRDPRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143		
QY 146	NLMIDIQKTAVAGEEIEVNVCTAMASKPATTIRWFGNTKELKGKSEVEEWSMDYTVTSOL 205.		
DB 144	NLMIDIQKTAVAGEEIEVNVCTAMASKPATTIRWFGNTKELKGKSEVEEWSMDYTVTSOL 203		
QY 206	MLKVHKEDGVPVVCQVEHPAVTGNLTQRYLYEVQYKPVHIOQNTYPLQGLTREGDALEL 265		
DB 204	MLKVHKEDGVPVVCQVEHPAVTGNLTQRYLYEVQYKPVHIOQNTYPLQGLTREGDALEL 263		
QY 266	TCEAIGKQPQVMVTVRVDDEMPQHAVLSGNLFINNKTNGTYCEASNIIVGKAHSD 325		
DB 264	TCEAIGKQPQVMVTVRVDDEMPQHAVLSGNLFINNKTNGTYCEASNIIVGKAHSD 323		
QY 326	YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITLITDSRAGEEGSIRAVDHAVIGGVAVV 385		
DB 324	YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITLITDSRAGEEGSIRAVDHAVIGGVAVV 383		
QY 386	FAMLCILLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442		
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RESULT 63			
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ID	ABR67068 standard; protein; 440 AA.		
XX			
AC	ABR67068;		
XX			
DT	05-AUG-2003 (first entry)		
XX			
DE	Human secreted polypeptide PRO355, SEQ ID NO:34.		
XX			
KW	Human; PRO; secreted protein; transmembrane protein;		
KW	extracellular domain; tumour necrosis factor-alpha; TNF-alpha;		
KW	chondrocyte; proliferation; differentiation; cartilage disorder;		
KW	bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;		
KW	adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;		
KW	liver; drug screening; transgenic animal; genetic analysis;		
KW	antiarthritic; vulnery; gene therapy.		
OS	Homo sapiens.		

XX US2003027266-A1.
XX 06-FEB-2003.
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XX 18-JUN-2002; 2002US-00174588.
XX 18-SEP-1997; 97US-0059263P.
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Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 83

Qy 86 FRDPRPLKDSRFQNLNFSSELKVSILTNVSIISDEGRYFCQLYTPPOESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQNLNFSSELKVSILTNVSIISDEGRYFCQLYTPPOESYTTITVLVPPR 143

Qy 146 NLMDIQKDTAVEGEIEVNCNTAMASKPATIRFWKGNTELKSGKSEVEEWSMDYVTSQ 205
Db 144 NLMDIQKDTAVEGEIEVNCNTAMASKPATIRFWKGNTELKSGKSEVEEWSMDYVTSQ 203

Qy 206 MLKVHKEDDGPVLCVVEHPAVTGNLTQRYLEVQYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVLCVVEHPAVTGNLTQRYLEVQYKPOVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGHQPPQVMTWVVDDEMPQHAVLSGNLFINLNKTDNGTYCEASNIYVGAHSD 325
Db 264 TCEAIGHQPPQVMTWVVDDEMPQHAVLSGNLFINLNKTDNGTYCEASNIYVGAHSD 323

Qy 326 YMLVYDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
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Qy 386 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
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RESULT 64
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ID ABO15671 standard; protein; 440 AA.
XX AC ABO15671;
XX XX
DT 27-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) #17.
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX OS Homo sapiens.
XX PN US2003054483-A1.
XX XX
XX PD 20-MAR-2003.
XX XX
XX PF 26-JUL-2002; 2002US-00205907.
XX PR 05-JUN-2000; 2000US-0209832P.
XX PR 28-FEB-2001; 2001WO-US006520.
XX PR 15-JAN-2002; 2002US-00052586.
XX XX
XX PA (GETH ) GENENTECH INC.
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-479876/45.
XX DR N-PSDB; ACD21185.
XX XX
XX PT Three hundred and five nucleic acids encoding PRO polypeptides, useful
XX for the manufacture of a medicament for diagnosing or treating tumor or
XX PT for measuring or detecting expression of an associated gene.
XX PS Claim 11; Fig 34; 699pp; English.
XX CC The invention discloses human nucleic acids encoding secreted and
XX transmembrane (PRO) polypeptides, with or without their associated signal
XX peptide. Also disclosed is an antibody that specifically binds to the PRO
XX polypeptide, a method for stimulating the release of tumour necrosis
XX factor alpha (TNF-alpha) from human blood by contacting the blood with a
XX PRO polypeptide, a method for stimulating the proliferation or
XX differentiation of chondrocyte cells by contacting the cells with a PRO
XX polypeptide, a method for detecting the presence of a tumour in a mammal
XX and an oligonucleotide probe derived from any of the PRO nucleotide
XX sequences. The nucleotide sequences are useful as probes, in chromosome
XX and gene mapping, in generating antisense RNA and DNA, in preparing PRO
XX polypeptides by recombinant techniques and in gene therapy (e.g. for
XX replacement of defective gene). The PRO polypeptides are useful as
XX molecular weight markers for protein electrophoresis purposes, for
XX chromosome identification, as chromosome markers, as therapeutic agents,
XX for stimulating the release of TNF-alpha from human blood, for
XX stimulating the proliferation or differentiation of chondrocytes and
XX detecting the presence, prevention and/or treatment of a tumour, such as
XX adrenal, lung, colon, breast, prostate, rectal, cervical or liver tumour.
XX The PRO polypeptides and nucleic acids may also be used diagnostically
XX for tissue typing. The sequence presented is a PRO polypeptide of the
XX invention. Note: The sequence data for this patent can also be obtained
XX in electronic format directly from USPTO at
XX seqdata.uspto.gov/sequence.html
XX SQ Sequence 440 AA;
XX XX
XX Query Match 94.3%; Score 417; DB 6; Length 440;
XX Best Local Similarity 100.0%; Pred. No. 0;
XX Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 83
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				PR	11-MAR-1998;	98US-0077632P.
Db	84	FRDRLPKDSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR	143	PR	11-MAR-1998;	98US-0077649P.
				PR	20-MAR-1998;	98US-0078866P.
Qy	146	NLMIDIQKDTAVEGEETEVNCTAMASKPATIRWFKGNTELKKGSEVEWSDMYTTSQL	205	PR	20-MAR-1998;	98US-0078939P.
				PR	27-MAR-1998;	98US-0079664P.
Db	144	NLMIDIQKDTAVEGEETEVNCTAMASKPATIRWFKGNTELKKGSEVEWSDMYTTSQL	203	PR	27-MAR-1998;	98US-0080107P.
				PR	31-MAR-1998;	98US-0080194P.
Qy	206	MLKVHKEDDGPVNLCOVEHPAVTCNLOTORVLEYKPOVHIQMTYPLQGLTREGDALEL	265	PR	31-MAR-1998;	98US-0080327P.
				PR	01-APR-1998;	98US-0080333P.
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				PR	08-APR-1998;	98US-0081049P.
Qy	266	TCEAIGKQPQVMVTVWVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD	325	PR	08-APR-1998;	98US-0081070P.
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				PR	15-APR-1998;	98US-0082568P.
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Db	324	YMLVYVDPPTTIPPTTT	383	PR	21-APR-1998;	98US-0082704P.
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XX	XX					98US-0084366P.
XX	XX					98US-0084414P.
DT	26-MAR-2003 (first entry)					98US-0084639P.
DE	Human secreted/transmembrane protein, PRO355.					98US-0084640P.
XX	XX					98US-0084643P.
KW	Human; secreted protein; transmembrane protein; PRO; antiarthritic;					98US-0084643P.
KW	vulnerable; tumour necrosis factor-alpha; chondrocyte cell proliferation;					98US-0085579P.
KW	chondrocyte cell differentiation; tumour; adrenal tumour; lung tumour;					98US-0085580P.
KW	colon tumour; breast tumour; prostate tumour; rectal tumour;					98US-0085582P.
KW	cervical tumour; liver tumour; bone disorder; cartilage disorder;					98US-0085700P.
KW	arthritis; sports injury.					98US-0086023P.
XX	XX					98US-0086392P.
OS	Homo sapiens.					98US-0086486P.
XX	XX					98US-0087098P.
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Best Local Similarity 100.0%; Pred. No. 0;
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RESULT 66
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KW protein electrophoresis; tumour necrosis factor-alpha; TNF-alpha; blood;
KW chondrocyte differentiation; chondrocyte proliferation; tumour.
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XX
PN US2003032102-A1.
XX
PD 13-FEB-2003.
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PF 17-JUN-2002; 2002US-00173697.
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XX AC ABU71128;
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XX 10-JUN-2003 (first entry)
XX DE Human PRO355 protein.
XX KW Human; PRO; secreted; transmembrane; cytostatic; TNF-alpha; blood;
KW tumour necrosis factor alpha release; chondrocyte cell; proliferation;
KW differentiation; tumour; gene therapy.
XX OS Homo sapiens.
XX XX
XX PN US2003036143-A1.
XX XX
XX PD 20-FEB-2003.
XX XX
XX PF 02-JUL-2002; 2002US-00187600.
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PR 02-JUL-1998; 98US-0091626P.
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PR 04-AUG-1998; 98US-0095282P.
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PR	17-AUG-1998;	98US-0096757P.	QY	206	MLKVHKED	DGVPVICOVEHPAVTGNL	QTORYLEVQYKQVHIQMTY	PLOGLTREGDALE	265
PR	17-AUG-1998;	98US-0096867P.	Db	204	MLKVHKED	DGVPVICOVEHPAVTGNL	QTORYLEVQYKQVHIQMTY	PLOGLTREGDALE	263
PR	17-AUG-1998;	98US-0096881P.	QY	266	TCEAIGK	POPVMVTVVRVDDMPQ	HAVLSGPNLFINNLKNTD	NGTYRCEASNIVGKAHSD	325
PR	18-AUG-1998;	98US-0096949P.	Db	264	TCEAIGK	POPVMVTVVRVDDMPQ	HAVLSGPNLFINNLKNTD	NGTYRCEASNIVGKAHSD	323
PR	18-AUG-1998;	98US-0096959P.	QY	326	YMLVYVDP	PTTIPPPTTTTTTTTTT	TTTTTTTTTTTTTTTTTT	TTTTTTTTTTTTTTTTTT	385
PR	26-AUG-1998;	98US-0097022P.	Db	324	YMLVYVDP	PTTIPPPTTTTTTTTTT	TTTTTTTTTTTTTTTTTT	TTTTTTTTTTTTTTTTTT	383
PR	26-AUG-1998;	98US-0097952P.	QY	386	FAMLC	LLIILGRYFARHKGTYF	THEAKGADDAADATAI	NAEGGQNNSEKKEYFI	442
PR	26-AUG-1998;	98US-0097954P.	Db	384	FAMLC	LLIILGRYFARHKGTYF	THEAKGADDAADATAI	NAEGGQNNSEKKEYFI	440
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PR	26-AUG-1998;	98US-0097971P.	ABO07738						
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PR	01-SEP-1998;	98US-0098716P.	XX	DT 18-AUG-2003 (first entry)					
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PR	02-SEP-1998;	98US-0098843P.	KW	cancer; adrenal; lung; colon; breast; prostate; rectum; cervix; liver.					
PR	09-SEP-1998;	98US-0099602P.	XX	Homo sapiens.					
PR	10-SEP-1998;	98US-0099741P.	OS	XX					
PR	10-SEP-1998;	98US-0099754P.	XX	US2003032130-A1.					
PR	10-SEP-1998;	98US-0099763P.	PN	PD 13-FEB-2003.					
PR	15-SEP-1998;	98US-0100388P.	XX	XX					
PR	16-SEP-1998;	98US-0100652P.	PF	28-JUN-2002; 2002US-00184635.					
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PR	16-SEP-1998;	98US-0100684P.	PR	13-NOV-1997; 97US-0065311P.					
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PR	16-SEP-1998;	98US-0100684P.	PR	27-MAR-1998; 98US-0079664P.					
PR	16-SEP-1998;	98US-0100684P.	PR	27-MAR-1998; 98US-0079786P.					
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Best Local Similarity		100.0%;	Pred. No. 0;		
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			0;	Indels	0;
			0;	Gaps	0;
QY	26	LRLLLLFS	AAALPTGDGQNLFTKQVTVIEGEVATIS	CQWNKSDSDSVIQLLNP	RTIY 85
Db	24	LRLLLLFS	AAALPTGDGQNLFTKQVTVIEGEVATIS	CQWNKSDSDSVIQLLNP	RTIY 83
QY	86	FRDPRPLK	DSRFOLLNFSSELKVS	LTVNSISDEGRYFCOLYTD	PPQESYTTITVLVPPR 145
Db	84	FRDPRPLK	DSRFOLLNFSSELKVS	LTVNSISDEGRYFCOLYTD	PPQESYTTITVLVPPR 143

CC such may be used in the treatment of various bone and/or cartilage
CC disorders such as arthritis and sports injuries. The PRO polypeptides may
CC be used in a method for detecting the presence of a tumour (e.g., an
CC adrenal tumour, lung tumour, colon tumour, breast tumour, prostate
CC tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This
CC method involves comparing the level of expression of the PRO polypeptide
CC in test and control samples, where a higher level of expression of PRO
CC polypeptide in the test sample as compared to the control sample is
CC indicative of the presence of a tumour. The PRO polypeptides are
CC additionally useful for in drug screening to identify agonists and
CC antagonists of PRO polypeptides. PRO nucleic acids are useful as
CC hybridisation probes (for isolation of cDNA molecules), in chromosome and
CC gene mapping, in the generation of antisense RNA and DNA and in gene
CC therapy. The nucleic acids can also be used for mapping genes encoding
CC PRO polypeptides, for genetic analysis of individuals with genetic
CC disorders, and for generating either transgenic animals or knock-out
CC animals which are useful in the development and screening of
CC therapeutically useful compounds. Sequences ABR69963-ABR70267 represent
CC the human PRO secreted/transmembrane polypeptides of the invention. Note:
CC The sequence data for this patent is also available in electronic format
CC from USPTO at seqdata.uspto.gov/sequence.html
XX
SQ Sequence 440 AA;

Query Match 94.38; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. NO. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 86 FRDPRPLKDSRFQLLNFSSELKVSILNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSILNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKDTAVEGEETEVNCTAMASKPATIRFKNGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKDTAVEGEETEVNCTAMASKPATIRFKNGNTLKGKSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHREDDGVPVICQVEHFAVTGNLTQRYLEVQYKPVHIOPTYPLQGLTREGDALEL 265
Db 204 MLKVHREDDGVPVICQVEHFAVTGNLTQRYLEVQYKPVHIOPTYPLQGLTREGDALEL 263
Qy 266 TCBAIGKQPQPMVTWVRVDDMPQHAVLSGNPLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCBAIGKQPQPMVTWVRVDDMPQHAVLSGNPLFINLNKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTT 385
Db 324 YMLVYVDPPTTIPPTTT 383
Qy 386 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 71

ABR69312
ID ABR69312 standard; protein; 440 AA.

XX AC ABR69312;

XX DT 11-AUG-2003 (first entry)

DE Human secreted polypeptide PRO355, SEQ ID NO:34.

XX Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;

KW antiarthritic; vulnerary; gene therapy.
XX Homo sapiens.
XX US2003036132-A1.
XX 20-FEB-2003.
XX 28-JUN-2002; 2002US-00184629.
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
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XX 24-OCT-1997; 97US-0063120P.
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XX 03-JUN-1998; 98US-0087827P.
XX 04-JUN-1998; 98US-0088025P.

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AB001453
ID AB001453 standard; protein; 440 AA.
XX
AC AB001453;
XX
DT 07-AUG-2003 (first entry)
XX
DE Human PRO polypeptide #17.
XX
KW Human; PRO; tumour; cytostatic; cancer; secreted protein; lung;
KW transmembrane protein; tumour necrosis factor alpha; TNF-alpha; adrenal;
KW chondrocyte cell; colon; breast; prostate; rectum; cervix; liver.
XX
OS Homo sapiens.
XX
PN US2003008353-A1.
XX
PD 09-JAN-2003.
XX
PF 21-JUN-2002; 2002US-00176758.
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PR 20-JUN-2001; 2001WO-US019692.
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PR 29-AUG-2001; 2001WO-US027099.
PR 15-JAN-2002; 2002US-00052586.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-341328/32.
XX N-PSDB; ACD06949.
XX
XX Three hundred and five nucleic acids encoding secreted and transmembrane
XX polypeptides, designated as PRO, useful for detecting the presence of, or
XX treating tumor, e.g. adrenal, lung, colon, breast, prostate, rectal,
XX cervical or liver tumor.
XX
XX Claim 11; Fig 34; 707pp; English.
XX
XX The invention relates to human PRO polypeptides (secreted and
XX transmembrane polypeptides) and the polynucleotides encoding them. The
XX invention also relates to an antibody that specifically binds to a PRO
XX polypeptide, a method for stimulating the release of tumour necrosis
XX factor alpha (TNF-alpha) from human blood by contacting the blood with a
XX PRO polypeptide and a method for stimulating the proliferation or
XX differentiation of chondrocyte cells by contacting the cells with a PRO
XX polypeptide. The polypeptides and polynucleotides are useful for
XX detecting the presence of a tumour, such as an adrenal, lung, colon,
XX breast, prostate, rectal, cervical or liver tumour, and for treating such
XX tumours. The polynucleotides are useful as hybridisation probes, in
XX chromosome and gene mapping and in generating antisense RNA or DNA. The
XX polypeptides are useful as pharmaceuticals, diagnostics, biosensors or
XX bioreactors. Both are useful in tissue typing. Sequences ABO01437-
XX ABO01741 represent human PRO polypeptides of the invention. Note: The
XX sequence data for this patent is also available in electronic format from
XX USPTO at seqdata.uspto.gov/sequence.html
XX
XX Sequence 440 AA;
XX
XX Query Match 94.3%; Score 417; DB 6; Length 440;
XX Best Local Similarity 100.0%; Pred. No. 0;
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XX 18-SEP-1997; 97US-0059263P.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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ALIGNMENTS

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; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
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; PRIOR FILING DATE: 1998-08-07
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; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/09/778,187B
; CURRENT FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-778-187B-2

Query Match
Best Local Similarity 100.0%; Score 442; DB 9; Length 442;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGDCQNLFKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGDCQNLFKDVTVIEGEVA 60

Qy 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120
Db 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120

Qy 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180
Db 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180

Qy 181 KGNTLKGKSEVESEWSDMYTTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTLKGKSEVESEWSDMYTTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240

Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWTVWRVDDENPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWTVWRVDDENPQHAVLSGPNLFI 300

Qy 301 NNLKNTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTITD 360
Db 301 NNLKNTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTITD 360

Qy 361 SRAGEGSIKRAVDHVGIVGVVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIKRAVDHVGIVGVVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420

Qy 421 DTAIINAEQQNNSEKKEYFI 442
Db 421 DTAIINAEQQNNSEKKEYFI 442

RESULT 3
US-09-984-130-136
; Sequence 136, Application US/09984130
; Publication No. US20030055231A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P2
; CURRENT APPLICATION NUMBER: US/09/984.130
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 60/243,792
; PRIOR FILING DATE: 2000-10-30
; PRIOR APPLICATION NUMBER: 09/836,353
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-984-130-136

Query Match
Best Local Similarity 100.0%; Score 442; DB 10; Length 442;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGDCQNLFKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGDCQNLFKDVTVIEGEVA 60

Qy 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120
Db 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120

Qy 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180
Db 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180

Qy 181 KGNTLKGKSEVESEWSDMYTTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTLKGKSEVESEWSDMYTTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240

Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWTVWRVDDENPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWTVWRVDDENPQHAVLSGPNLFI 300

Qy 301 NNLKNTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTITD 360
Db 301 NNLKNTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTITD 360

Qy 361 SRAGEGSIKRAVDHVGIVGVVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIKRAVDHVGIVGVVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDAADA 420

Qy 421 DTAIINAEQQNNSEKKEYFI 442
Db 421 DTAIINAEQQNNSEKKEYFI 442

RESULT 4
US-09-836-353A-136
; Sequence 136, Application US/09836353A
; Publication No. US20030129685A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P1
; CURRENT APPLICATION NUMBER: US/09/836,353A
; CURRENT FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-836-353A-136

Query Match
Best Local Similarity 100.0%; Score 442; DB 10; Length 442;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGDCQNLFKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGDCQNLFKDVTVIEGEVA 60

Qy 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120
Db 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120

Qy 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180
Db 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180
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Db 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCCTAMASKPATIRWF 180
QY 181 KGNTELKGKSEVEWSDMYTTVTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTELKGKSEVEWSDMYTTVTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
QY 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFI 300
Db 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFI 300
QY 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
Db 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
QY 361 SRAGEEGSIKRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEEGSIKRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
QY 421 DTAIINAEQQNNSEKKEYFI 442
Db 421 DTAIINAEQQNNSEKKEYFI 442

RESULT 5
US-10-302-041-20
; Sequence 20, Application US/10302041
; Publication No. US20030144478A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/10/302,041
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-302-041-20

Query Match 100.0%; Score 442; DB 14; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASVLPSSGQCAAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGQCAAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
QY 61 TISCQVNSDDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVSLSNVSISDEG 120
Db 61 TISCQVNSDDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVSLSNVSISDEG 120
QY 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCCTAMASKPATIRWF 180
QY 181 KGNTELKGKSEVEWSDMYTTVTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTELKGKSEVEWSDMYTTVTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
QY 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFI 300
Db 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFI 300
QY 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
Db 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
QY 361 SRAGEEGSIKRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEEGSIKRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
QY 421 DTAIINAEQQNNSEKKEYFI 442
Db 421 DTAIINAEQQNNSEKKEYFI 442

RESULT 7
US-10-015-115-111

Db 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
QY 361 SRAGEEGSIKRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEEGSIKRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
QY 421 DTAIINAEQQNNSEKKEYFI 442
Db 421 DTAIINAEQQNNSEKKEYFI 442

RESULT 6
US-10-403-107-1
; Sequence 1, Application US/10403107
; Publication No. US20030165974A1
; GENERAL INFORMATION:
; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
; APPLICANT: REEVES, Roger
; APPLICANT: YOSHINORI, Muramaki
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED DISORDERS
; FILE REFERENCE: JHU1770-1
; CURRENT APPLICATION NUMBER: US/10/403,107
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US/09/930,803
; PRIOR FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-403-107-1

Query Match 100.0%; Score 442; DB 14; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASVLPSSGQCAAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGQCAAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
QY 61 TISCQVNSDDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVSLSNVSISDEG 120
Db 61 TISCQVNSDDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVSLSNVSISDEG 120
QY 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCCTAMASKPATIRWF 180
QY 181 KGNTELKGKSEVEWSDMYTTVTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTELKGKSEVEWSDMYTTVTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
QY 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFI 300
Db 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFI 300
QY 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
Db 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
QY 361 SRAGEEGSIKRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEEGSIKRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
QY 421 DTAIINAEQQNNSEKKEYFI 442
Db 421 DTAIINAEQQNNSEKKEYFI 442


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; CURRENT APPLICATION NUMBER: US/10/622,237
; PRIOR FILING DATE: 2003-07-17
; PRIOR APPLICATION NUMBER: US/09/778,187B
; PRIOR FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-622-237-2

Query Match      100.0%; Score 442; DB 16; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
QY 61 TISCQVSKSDSVIQLLNPRTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSI DEG 120
Db 61 TISCQVSKSDSVIQLLNPRTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSI DEG 120
QY 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIOKDTAVEGEIEIVNCTAMASKPATIRWF 180
Db 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIOKDTAVEGEIEIVNCTAMASKPATIRWF 180
QY 181 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGPVVCQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGPVVCQVEHPAVTGNLQORYLEVQ 240
QY 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGPNLFI 300
QY 301 NNLNKTDNGTYRCEASNIYVKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
Db 301 NNLNKTDNGTYRCEASNIYVKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
QY 361 SRAGEGSIKRAVDHAVIGGVAVVVFAMLCILILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIKRAVDHAVIGGVAVVVFAMLCILILGRYFARHKGTYFTHEAKGADDAADA 420
QY 421 DTAIINAEQQNNSEKKEYFI 442
Db 421 DTAIINAEQQNNSEKKEYFI 442

RESULT 11
US-09-866-028-61
; Sequence 61, Application US/09866028
; Patent No. US20020058309A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerriksen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/866, 028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-866-028-61

Query Match      94.3%; Score 417; DB 9; Length 440;
; US-10-898-408-2
; Sequence 2, Application US/10898408
; Publication No. US20050058642A1
; GENERAL INFORMATION:
; APPLICANT: GALIBERT, Laurent J.
; APPLICANT: YAN, Wei
; TITLE OF INVENTION: ANTAGONISTS AND AGONISTS OF LDCAM AND METHODS OF USE
; FILE REFERENCE: 3467-A
; CURRENT APPLICATION NUMBER: US/10/898,408
; CURRENT FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: 60/430,027
; PRIOR FILING DATE: 2003-07-25
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT
; ORGANISM: homo sapiens
; US-10-898-408-2
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Db 24 LRLLLLFSAALIPGTGGQNLFTKDVTVIEGEVATISCQVNSKSDSDSVIQLLNPRTIY 83
Qy 86 FRDFRPLKDSRFQLLNFSSSELKVSLSNVSTSDSGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDFRPLKDSRFQLLNFSSSELKVSLSNVSTSDSGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDRAVEGEIEVNCATAMASKPATIRWFKNGNTLKGKSEVEEWSMDYTVTSOL 205
Db 144 NLMDIQDRAVEGEIEVNCATAMASKPATIRWFKNGNTLKGKSEVEEWSMDYTVTSOL 203
Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKPPQVMVTVWVRVDEMPOHVLGPNLFINNLTNDGTGTYCEASNVGKAHSD 325
Db 264 TCEAIGKPPQVMVTVWVRVDEMPOHVLGPNLFINNLTNDGTGTYCEASNVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAIINAEQQNNSBEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAIINAEQQNNSBEKKEYFI 440
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RESULT 13

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US-09-944-457-61
; Sequence 61, Application US/09944457
; Patent No. US20020110859A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: KJavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,457
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
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; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-944-457-61
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Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGGQNLFTKDVTVIEGEVATISCQVNSKSDSDSVIQLLNPRTIY 85

Db 24 LRLLLLFSAALIPGTGGQNLFTKDVTVIEGEVATISCQVNSKSDSDSVIQLLNPRTIY 83

Qy 86 FRDFRPLKDSRFQLLNFSSSELKVSLSNVSTSDSGRYFCOLYTDPPQESYTTITVLVPPR 145

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Db 84 FRDPRPKDSRFPQLNFSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQOTAVEGEEIEVNCVTAMASKPATIRFWKGNTELKKGSEVSEWSDMYTTSQ 205
Db 144 NLMDIQOTAVEGEEIEVNCVTAMASKPATIRFWKGNTELKKGSEVSEWSDMYTTSQ 203
Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPOVHIQWYTPLOGLTREGDALE 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPOVHIQWYTPLOGLTREGDALE 263
Qy 266 TCAIGKQPQVWVWTVRVDDEMPOHVLSPGNLFINNLKTDNGTYRCEASNIVGRAHSD 325
Db 264 TCAIGKQPQVWVWTVRVDDEMPOHVLSPGNLFINNLKTDNGTYRCEASNIVGRAHSD 323
Qy 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWVAVV 385
Db 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWVAVV 383
Qy 386 FAMLCLLIILGRFARHKGYTFHTEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGYTFHTEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 14
US-09-944-862-61
; Sequence 61, Application US/09944862
; Patent No. US20020115145A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/856,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
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; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020115145A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020115145A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-862-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPTGDGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPTGDGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83
Qy 86 FRDPRPKDSRFPQLNFSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFPQLNFSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQOTAVEGEEIEVNCVTAMASKPATIRFWKGNTELKKGSEVSEWSDMYTTSQ 205
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Db 144 NLMDIQKDTAVGESEIEVNCNTAMASKPATTTIRFWKGNTELKKGSEVEEWSDMYTVTSQ 203
QY 206 MLKVHKEDDGVVICQVEHPAVTGNLTQRYLEVQVKPQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVVICQVEHPAVTGNLTQRYLEVQVKPQVHIQMTYPLQGLTREGDALEL 263
QY 266 TCEAIGKPPQVMVTVWRVDDDEMPQHAVLSGPNLFINNLANKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKPPQVMVTVWRVDDDEMPQHAVLSGPNLFINNLANKTNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDHAGVGVAVVV 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDHAGVGVAVVV 383
QY 386 FAMLCLLILIGRYFARHKGYTFHEAKGADDAADATAIINASGGQNNSEKKEYFI 442
Db 384 FAMLCLLILIGRYFARHKGYTFHEAKGADDAADATAIINASGGQNNSEKKEYFI 440
RESULT 15
US-09-945-587-61
; Sequence 61, Application US/09945587
; Patent No. US20020127643A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,587
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086

; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-945-587-61
Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 26 LRLLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 85
Db 24 LRLLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 83
QY 86 FRDFRPLKDSRFOLLNPFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESVTTITVLVPPR 145
Db 84 FRDFRPLKDSRFOLLNPFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESVTTITVLVPPR 143
QY 146 NLMDIQKDTAVGESEIEVNCNTAMASKPATTTIRFWKGNTELKKGSEVEEWSDMYTVTSQ 205
Db 144 NLMDIQKDTAVGESEIEVNCNTAMASKPATTTIRFWKGNTELKKGSEVEEWSDMYTVTSQ 203
QY 206 MLKVHKEDDGVVICQVEHPAVTGNLTQRYLEVQVKPQVHIQMTYPLQGLTREGDALEL 265

Db 204 MLKVHKKDDGVPVLCQVEHPAVTGNLTQRYLEVOYKPVHQMITYPQGLTREGDALEL 263
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Db 264 TCEAIGKQPQPMVWTVRVDDEMPQHAVLSGPNLFINNLTNDGTNRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTSDSAGEGSTRVDHAVIGGVAVVV 385
Db 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTSDSAGEGSTRVDHAVIGGVAVVV 383
Qy 386 FAMLCLLIILGRVFAHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRVFAHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 16

US-09-945-015-61
; Sequence 61. Application US/09945015
; Patent No. US20020132768A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,015
; CURRENT FILING DATE: 2001-09-26
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; TYPE: PRT
; LENGTH: 440
; ORGANISM: Homo Sapien
US-09-945-015-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLLFSAALIPITGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRTIY 85
Db 24 LRLLLLLFSAALIPITGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRTIY 83
Qy 86 FRDPRPKDSRFQQLNPFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQQLNPFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMIDIQKDTAVEGEEIEVNCNTAMASKPATTTIWFKGTNTELKKGSEVEESDMYTVTSOL 205
Db 144 NLMIDIQKDTAVEGEEIEVNCNTAMASKPATTTIWFKGTNTELKKGSEVEESDMYTVTSOL 203
Qy 206 MLKVHKKDDGVPVLCQVEHPAVTGNLTQRYLEVOYKPVHQMITYPQGLTREGDALEL 265
Db 204 MLKVHKKDDGVPVLCQVEHPAVTGNLTQRYLEVOYKPVHQMITYPQGLTREGDALEL 263
Qy 266 TCEAIGKQPQPMVWTVRVDDEMPQHAVLSGPNLFINNLTNDGTNRCEASNIVGKAHSD 325

Db 264 TCEAIGKQPQVMVTVVRVDDMPQHAVLGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDHAVIGGVAVVV 395
Db 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDHAVIGGVAVVV 383
Qy 386 FAMLCLLIILGRYFARHKGYTFTHAKGADDAADATTAIINAEKGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGYTFTHAKGADDAADATTAIINAEKGQNNSEKKEYFI 440

RESULT 17
US-09-944-396-61
; Sequence 61, Application US/09944396
; Patent No. US20020132981A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,396
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296

; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-396-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLFSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSVIQLLNPRTIY 85
Db 24 LRLLLLLFSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSVIQLLNPRTIY 83

Qy 86 FRDFRPLKDSRFQLLNLFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTTTVLVPPR 145
Db 84 FRDFRPLKDSRFQLLNLFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTTTVLVPPR 143

Qy 146 NLMDIQDXTAVEGEEIEVNCNTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDXTAVEGEEIEVNCNTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDGVPVICOVEHPAVTGNLQORYLEVQYKQPVHIOMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDGVPVICOVEHPAVTGNLQORYLEVQYKQPVHIOMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVTVVRVDDMPQHAVLGPNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDMPQHAVLGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDHAVIGGVAVVV 385


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Db 384 FAMLCLLIILGRYFARHKGTFTFHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 440
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RESULT 19
US-09-943-762-61
; Sequence 61, Application US/09943762
; Patent No. US20020142958A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,762
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
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; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-943-762-61
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Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAAALIPGTGQNLFTKDVTVIEGVATISQVKNKSDSVIQLLNPRTIY 85
|||||
Db 24 LRLLLLFSAAALIPGTGQNLFTKDVTVIEGVATISQVKNKSDSVIQLLNPRTIY 83
|||||

Qy 86 FRDFRPLKDSRFOLLNFSSELKVSITNVSISDEGRYFCQLYTDPPEQSYTTITVLVPPR 145
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Db 84 FRDFRPLKDSRFOLLNFSSELKVSITNVSISDEGRYFCQLYTDPPEQSYTTITVLVPPR 143
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Qy 146 NLMIDIQKDTAVEGESIEVNCTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYVTSOL 205
|||||
Db 144 NLMIDIQKDTAVEGESIEVNCTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYVTSOL 203
|||||

Qy 206 MLKVHKEDDGVPVICOVEHPAVTGNLTORYLEVOYKPOVHIQMTYPLQSLTREGDALEL 265
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Db 204 MLKVHKEDDGVPVICOVEHPAVTGNLTORYLEVOYKPOVHIQMTYPLQSLTREGDALEL 263
|||||

Qy 266 TCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINLNKNTDNGTYRCEASNIVGKAHSD 325
|||||
Db 264 TCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINLNKNTDNGTYRCEASNIVGKAHSD 323
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Qy 326 YMLYVYDPPPTTTPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
|||||
Db 324 YMLYVYDPPPTTTPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
|||||

Qy 386 FAMLCLLIILGRYFARHKGTFTFHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 442
|||||
Db 384 FAMLCLLIILGRYFARHKGTFTFHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 440
|||||
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```

; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrata, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hilan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,851A
; CURRENT FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: US/09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090

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; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: NO. US20020150976A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: NO. US20020150976A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-943-851A-61

Query Match          94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0

Qy   26 LRLLLLFSAAALIPITGDGONLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIIY 85
Db   24 LRLLLLFSAAALIPITGDGONLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIIY 83

Qy   86 FRFRPLKDSRFQLLNFSSSELKVSLTNVSISDEGRYFCOLYTDPPQESYTITVLVPPER 145
Db   84 FRFRPLKDSRFQLLNFSSSELKVSLTNVSISDEGRYFCOLYTDPPQESYTITVLVPPER 143

Qy   146 NLMDIQDQTAVEGEEIEVNCTAMASKPATTTIRWPKGNTELKGSEVESWSDMYVTTSOL 205
Db   144 NLMDIQDQTAVEGEEIEVNCTAMASKPATTTIRWPKGNTELKGSEVESWSDMYVTTSOL 203

Qy   206 MLKVHKEDDGVPVICQVEHPAVTGNLTQRYLEVQYKPQVHIQMTYPLQGLTFREGDALEL 265
Db   204 MLKVHKEDDGVPVICQVEHPAVTGNLTQRYLEVQYKPQVHIQMTYPLQGLTFREGDALEL 263

Qy   266 TCFAIGKQPQVMVTVWRVDDEMPQHAVLSGPNI.FINNKNKTNGTYRCASINIVGKAHSD 325
Db   264 TCFAIGKQPQVMVTVWRVDDEMPQHAVLSGPNI.FINNKNKTNGTYRCASINIVGKAHSD 323

Qy   326 YMLVVYDPPTTIPIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db   324 YMLVVYDPPTTIPIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy   386 FAMLCLLIILGRYFARHKGTGYTFHEAKGADDAADADATAIINAEGGQNNSSEEKEYFI 442
Db   384 FAMLCLLIILGRYFARHKGTGYTFHEAKGADDAADADATAIINAEGGQNNSSEEKEYFI 440

RESULT 22
US-09-944-413-61
; Sequence 61, Application US/09944413
; Patent No. US20020156004A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan

```


APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tomas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548PICI
CURRENT APPLICATION NUMBER: US/09/944,403
CURRENT FILING DATE: 2001-09-26
PRIOR FILING DATE: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095

PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-403-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	26	LRLLLLFSAAALIPGTGQNLFTKQVTVEGVSATISQVKNKSDSVIQLLPNRQTIY	85
Db	24	LRLLLLFSAAALIPGTGQNLFTKQVTVEGVSATISQVKNKSDSVIQLLPNRQTIY	83
Qy	86	FRDPRPKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR	145
Db	84	FRDPRPKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR	143
Qy	146	NLMIDIQKDTAVEGEIEVNCCTAMASKPATIRFWFGNTELGKSEVEEWSDMYTVTSOL	205
Db	144	NLMIDIQKDTAVEGEIEVNCCTAMASKPATIRFWFGNTELGKSEVEEWSDMYTVTSOL	203
Qy	206	MLKVHKEDDGVVICQVEHPAVTGNLQORYLEYQVKPQVHIQMTYPLQGLTREGDALEL	265
Db	204	MLKVHKEDDGVVICQVEHPAVTGNLQORYLEYQVKPQVHIQMTYPLQGLTREGDALEL	263
Qy	266	TCEAIGKQPQVWVTVVRVDEMPQHAVLSGPNLFINLNKNTDNGTYRCEASNIVGKAHSD	325
Db	264	TCEAIGKQPQVWVTVVRVDEMPQHAVLSGPNLFINLNKNTDNGTYRCEASNIVGKAHSD	323
Qy	326	YMLYVYDPPPTTIPPPPTTT	385
Db	324	YMLYVYDPPPTTIPPPPTTT	383
Qy	386	FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGQNNSEKKEYFI	442
Db	384	FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGQNNSEKKEYFI	440

RESULT 24
US-09-944-896-61
Sequence 61, Application US/09944896
Patent No. US20020168715A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Geritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth

APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,896
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12952
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020168715A, September 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020168715A, September 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841

PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-896-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLLSAAALPTGDCQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLLLSAAALPTGDCQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDFRPLKDSRFOLLNPFSSSELKVLSTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDFRPLKDSRFOLLNPFSSSELKVLSTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIIOKDTAVGEIEVNTAMASKPATIIFWKGNTLKGKSEVEESDMYTVTSOL 205
Db 144 NLMDIIOKDTAVGEIEVNTAMASKPATIIFWKGNTLKGKSEVEESDMYTVTSOL 203
Qy 206 MLKVHKEDDGPVVICQVEHPAVTGNLQRYLSEVQYKPVQVHIQWYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVICQVEHPAVTGNLQRYLSEVQYKPVQVHIQWYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQPMVMTWVRVDDDEMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWVRVDDDEMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVYDPPPTTIPPTTT 385
Db 324 YMLYVYDPPPTTIPPTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQQNNSEKKEYFI 440

RESULT 25

US-09-944-944-61
Sequence 61, Application US/09944944
Patent No. US20020173463A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

```

; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: ERT
; ORGANISM: Homo Sapien
US-09-944-944-61

Query Match          94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPTGDGQNLFTKDVTVIEGEVATISCOVKNKSDSDSVIQLLNPRTIY 85
    |||||
Db 24 LRLLLLFSAALIPTGDGQNLFTKDVTVIEGEVATISCOVKNKSDSDSVIQLLNPRTIY 83
    |||||

Qy 86 FRDPRPLKDRFQLLNPSSSELKVSILTNVISIDEGRYFCQLYTDPDQESYTTITVLVPPR 145
    |||||
Db 84 FRDPRPLKDRFQLLNPSSSELKVSILTNVISIDEGRYFCQLYTDPDQESYTTITVLVPPR 143
    |||||

Qy 146 NLMDIQDQTAVGSEIEVNTACTAWAKPATTIRWFKGNTELKCKSEVEWSDMYTYSOL 205
    |||||
Db 144 NLMDIQDQTAVGSEIEVNTACTAWAKPATTIRWFKGNTELKCKSEVEWSDMYTYSOL 203
    |||||

Qy 206 MLKVHKEDDDGVPVICQVEHPAVTGNLQTORYLEVQYKQVHIQMTYPLQGLTREGDALEL 265
    |||||
Db 204 MLKVHKEDDDGVPVICQVEHPAVTGNLQTORYLEVQYKQVHIQMTYPLQGLTREGDALEL 263
    |||||

Qy 266 TCBAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINLNKNTDNGTYRCBASNIVGKAHSD 325
    |||||
Db 264 TCBAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINLNKNTDNGTYRCBASNIVGKAHSD 323
    |||||

Qy 326 YMLVYVDPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 395
    |||||
Db 324 YMLVYVDPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
    |||||

Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEGGQNNSEEKEYFI 442
    |||||
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEGGQNNSEEKEYFI 440
    |||||

RESULT 26
US-09-944-929-61
; Sequence 61, Application US/09944929
; Publication No. US20020197612A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,929
; CURRENT FILING DATE: 2001-08-31

```


; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-929-61

Query Match
Best Local Similarity 94.3%; Score 417; DB 9; Length 440;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 85
DB 24 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 83
QY 86 FRFRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
DB 84 FRFRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
QY 146 NLMIDIKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
DB 144 NLMIDIKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVYKPVQHIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVYKPVQHIQMTYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVDDPPTTIPPTTT 385
DB 324 YMLYVDDPPTTIPPTTT 383
QY 386 FAMLCLLIILGRYPARHKGTGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYPARHKGTGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 27
US-09-944-907-61
; Sequence 61, Application US/09944907
; Publication No. US20020198147A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,907
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-929-61

Query Match
Best Local Similarity 94.3%; Score 417; DB 9; Length 440;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 85
DB 24 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 83
QY 86 FRFRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
DB 84 FRFRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
QY 146 NLMIDIKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
DB 144 NLMIDIKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVYKPVQHIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVYKPVQHIQMTYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVDDPPTTIPPTTT 385
DB 324 YMLYVDDPPTTIPPTTT 383
QY 386 FAMLCLLIILGRYPARHKGTGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYPARHKGTGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 28
US-09-944-884-61
; Sequence 61, Application US/09944884
; Publication No. US20030077698A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,884
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-884-61

Query Match
Best Local Similarity 94.3%; Score 417; DB 10; Length 440;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 85
DB 24 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 83
QY 86 FRFRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
DB 84 FRFRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
QY 146 NLMIDIKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
DB 144 NLMIDIKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVYKPVQHIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVYKPVQHIQMTYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVDDPPTTIPPTTT 385
DB 324 YMLYVDDPPTTIPPTTT 383
QY 386 FAMLCLLIILGRYPARHKGTGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYPARHKGTGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-907-61

Query Match
Best Local Similarity 94.3%; Score 417; DB 9; Length 440;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 85
DB 24 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 83
QY 86 FRFRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
DB 84 FRFRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
QY 146 NLMIDIKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
DB 144 NLMIDIKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVYKPVQHIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVYKPVQHIQMTYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVDDPPTTIPPTTT 385
DB 324 YMLYVDDPPTTIPPTTT 383
QY 386 FAMLCLLIILGRYPARHKGTGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYPARHKGTGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 28
US-09-944-884-61
; Sequence 61, Application US/09944884
; Publication No. US20030077698A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,884
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-884-61

Query Match
Best Local Similarity 94.3%; Score 417; DB 10; Length 440;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 85
DB 24 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 83
QY 86 FRFRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
DB 84 FRFRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
QY 146 NLMIDIKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
DB 144 NLMIDIKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVYKPVQHIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVYKPVQHIQMTYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVWRVDDDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVDDPPTTIPPTTT 385
DB 324 YMLYVDDPPTTIPPTTT 383
QY 386 FAMLCLLIILGRYPARHKGTGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYPARHKGTGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

Best Local Similarity 100.0%; Pred. No. 0;	
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY 26	LRLLLLFSAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRQTIY 85
Db 24	LRLLLLFSAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRQTIY 83
QY 86	FRDPRPKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTPPQESYTTITVLVPPR 145
Db 84	FRDPRPKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTPPQESYTTITVLVPPR 143
QY 146	NLMIDIOKDTAVEGEEIEVNCTAMASKPATIRWFKNTELKSGKSEVEEWSDMYTVTSQ 205
Db 144	NLMIDIOKDTAVEGEEIEVNCTAMASKPATIRWFKNTELKSGKSEVEEWSDMYTVTSQ 203
QY 206	MLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVQYKPOVHIQMTYPLQGLTRGDALE 265
Db 204	MLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVQYKPOVHIQMTYPLQGLTRGDALE 263
QY 266	TCEAIGKPPQPMVTVRVDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKASHD 325
Db 264	TCEAIGKPPQPMVTVRVDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKASHD 323
QY 326	YMLVYDPPPTIIPPTTT 385
Db 324	YMLVYDPPPTIIPPTTT 383
QY 386	FAMLCILIIIGRYFARHKGTFTTHEAKGADDAADATTAI NAEQGONNSBEKKEVFI 442
Db 384	FAMLCILIIIGRYFARHKGTFTTHEAKGADDAADATTAI NAEQGONNSBEKKEVFI 440
RESULT 29	
US-09-944-852-61	
; Sequence 61, Application US/09944852	
; Publication No. US20030083479A1	
; GENERAL INFORMATION:	
; APPLICANT: Baker, Kevin	
; APPLICANT: Botstein, David	
; APPLICANT: Eaton, Dan	
; APPLICANT: Ferrara, Napoleone	
; APPLICANT: Filvaroff, Ellen	
; APPLICANT: Gerritsen, Mary	
; APPLICANT: Goddard, Audrey	
; APPLICANT: Godowski, Paul	
; APPLICANT: Grimaldi, Christopher	
; APPLICANT: Gurney, Austin	
; APPLICANT: Hillan, Kenneth	
; APPLICANT: Kijavlin, Ivar	
; APPLICANT: Napier, Mary	
; APPLICANT: Roy, Margaret	
; APPLICANT: Tumas, Daniel	
; APPLICANT: Wood, William	
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC	
; TITLE OF INVENTION: ACIDS ENCODING THE SAME	
; FILE REFERENCE: P2548P1C1	
; CURRENT APPLICATION NUMBER: US/09/944,852	
; CURRENT FILING DATE: 2001-08-31	
; PRIOR APPLICATION NUMBER: 09/866,028	
; PRIOR FILING DATE: 2001-05-25	
; NUMBER OF SEQ ID NOS: 120	
; SEQ ID NO 61	
; LENGTH: 440	
; TYPE: PRT	
; ORGANISM: Homo Sapien	
US-09-944-852-61	
Query Match 94.3%; Score 417; DB 10; Length 440;	
Best Local Similarity 100.0%; Pred. No. 0;	
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY 26	LRLLLLFSAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRQTIY 85

PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20030096742A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20030096742A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-943-780-61

Query Match 94.3%; Score 417; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPTEGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNNRQTIY 85
Db 24 LRLLLLFSAALIPTEGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNNRQTIY 83
Qy 86 FRDRPLKDSRFQLLNFSSSELKVLSTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 145

Db 84 FRDRPLKDSRFQLLNFSSSELKVLSTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQKDTAVEGEIEVNCVTAMASKPATTIRWFKGNTLTKGKSEVEEWSMDYTVTSOL 205
Db 144 NLMDIQKDTAVEGEIEVNCVTAMASKPATTIRWFKGNTLTKGKSEVEEWSMDYTVTSOL 203
Qy 206 MLKVHKEDDGVPICOVEHPAVTGNLQRYLEVQYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPICOVEHPAVTGNLQRYLEVQYKPOVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCBAIGKQPQVMVMTWVRVDDDEMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCBAIGKQPQVMVMTWVRVDDDEMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTT 385
Db 324 YMLVYVDPPTTIPPTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEAGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEAGGQNNSEKKEYFI 440

RESULT 31
US-09-945-584-61
; Sequence 61, Application US/09945584
; Publication No. US20030211570A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,584
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,596
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997

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; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,236
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 15, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20030211570A1, September 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20030211570A1, September 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-945-584-61

Query Match          94.3%; Score 417; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAALPTGQGNLFKDVTVIEGEVATISCCVNKSDSDSVIOLLNPNRTIY 85
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Db 24 LRLLLLSAALPTGQGNLFKDVTVIEGEVATISCCVNKSDSDSVIOLLNPNRTIY 83
    |||||||
Qy 86 FRDPRPLKDSRFQLLNFSSSELKVSLLTNVTSIDSGRYFCQLYTDPPQESYTTITVLVPPR 145
    |||||||
Db 84 FRDPRPLKDSRFQLLNFSSSELKVSLLTNVTSIDSGRYFCQLYTDPPQESYTTITVLVPPR 143
    |||||||
Qy 146 NLMDIQKDTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEEWSMDMYTTSQ 205
    |||||||
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Db 144 NLMDIQKDTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEEWSMDMYTTSQ 203
Qy 206 MLKVHKEDDGVPVICOVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTREGDALEL 265
    |||||||
Db 204 MLKVHKEDDGVPVICOVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTREGDALEL 263
    |||||||
Qy 266 TCEAIGKQPQVVMVTVVRVDDMPQHAVLSGPNLFINLNKNTDNGTYRCEASNIVGKAHSD 325
    |||||||
Db 264 TCEAIGKQPQVVMVTVVRVDDMPQHAVLSGPNLFINLNKNTDNGTYRCEASNIVGKAHSD 323
    |||||||
Qy 326 YMLYVYDPTTTPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
    |||||||
Db 324 YMLYVYDPTTTPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
    |||||||
Qy 386 FAMLCLLLIILGRYFARHKGTYFTHAEKAGDADAADATTAIINAEAGGQNNSEKKEYFI 442
    |||||||
Db 384 FAMLCLLLIILGRYFARHKGTYFTHAEKAGDADAADATTAIINAEAGGQNNSEKKEYFI 440
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RESULT 32
US-09-943-664-61
; Sequence 61, Application US/09943664
; Publication No. US20040091972A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,664
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
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; PRIOR APPLICATION NUMBER: 60/074,092
 ; PRIOR FILING DATE: February 9, 1998
 ; PRIOR APPLICATION NUMBER: 60/075,945
 ; PRIOR FILING DATE: February 25, 1998
 ; PRIOR APPLICATION NUMBER: 60/112,850
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 60/113,296
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 60/146,222
 ; PRIOR FILING DATE: July 28, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330
 ; PRIOR FILING DATE: September 16, 1998
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108
 ; PRIOR FILING DATE: December 1, 1998
 ; PRIOR APPLICATION NUMBER: 09/216,021
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 09/218,517
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 09/254,311
 ; PRIOR FILING DATE: March 3, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252
 ; PRIOR FILING DATE: June 22, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: September 15, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409
 ; PRIOR FILING DATE: November 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: November 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301
 ; PRIOR FILING DATE: December 1, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: December 16, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565
 ; PRIOR FILING DATE: February 11, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: February 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841
 ; PRIOR FILING DATE: March 2, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439
 ; PRIOR FILING DATE: March 30, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042
 ; PRIOR FILING DATE: May 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710
 ; PRIOR FILING DATE: July 28, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678
 ; PRIOR FILING DATE: December 1, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520
 ; PRIOR FILING DATE: February 28, 2001
 ; NUMBER OF SEQ ID NOS: 120
 ; SEQ ID NO 61
 ; LENGTH: 440
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-09-943-664-61

Query Match 94.3%; Score 417; DB 11; Length 440;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 24 LRLLLLFSAALIPGDCGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIY 83
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86 FRDFRPLKDSRFOLLNFFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQSYTTITVLVPPR 145
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 84 FRDFRPLKDSRFOLLNFFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQSYTTITVLVPPR 143
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146 NLMDIQKDTAVEGEBIEVNCCTAMASKPATTIRWFKGNTELKKGSEVEWSDMTVTTSOL 205
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 144 NLMDIQKDTAVEGEBIEVNCCTAMASKPATTIRWFKGNTELKKGSEVEWSDMTVTTSOL 203
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206 MLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVQYKQVHIQMTYPIQGLTREGDALEL 265
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PRIOR FILING DATE: 1997-12-18	PRIOR APPLICATION NUMBER: 60/077450
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PRIOR FILING DATE: 1998-03-11	PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20	PRIOR APPLICATION NUMBER: 60/078939
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PRIOR FILING DATE: 1998-03-27	PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27	PRIOR APPLICATION NUMBER: 60/080107
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PRIOR FILING DATE: 1998-03-31	PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01	PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01	PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08	PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08	PRIOR APPLICATION NUMBER: 60/081195
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PRIOR FILING DATE: 1998-05-06	PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084640
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PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085579
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PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085700

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198-05-18	PRIOR FILING DATE: 198-05-18
60/086392	PRIOR APPLICATION NUMBER: 60/086392
198-05-22	PRIOR FILING DATE: 198-05-22
60/086486	PRIOR APPLICATION NUMBER: 60/086486
198-05-22	PRIOR FILING DATE: 198-05-22
60/087098	PRIOR APPLICATION NUMBER: 60/087098
198-05-28	PRIOR FILING DATE: 198-05-28
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60/088028	PRIOR APPLICATION NUMBER: 60/088028
198-06-04	PRIOR FILING DATE: 198-06-04
60/088029	PRIOR APPLICATION NUMBER: 60/088029
198-06-04	PRIOR FILING DATE: 198-06-04
60/088033	PRIOR APPLICATION NUMBER: 60/088033
198-06-04	PRIOR FILING DATE: 198-06-04
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198-06-05	PRIOR FILING DATE: 198-06-05
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198-06-09	PRIOR FILING DATE: 198-06-09
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60/088826	PRIOR APPLICATION NUMBER: 60/088826
198-06-10	PRIOR FILING DATE: 198-06-10
60/088861	PRIOR APPLICATION NUMBER: 60/088861
198-06-11	PRIOR FILING DATE: 198-06-11
60/088863	PRIOR APPLICATION NUMBER: 60/088863
198-06-11	PRIOR FILING DATE: 198-06-11
60/088876	PRIOR APPLICATION NUMBER: 60/088876
198-06-11	PRIOR FILING DATE: 198-06-11
60/089090	PRIOR APPLICATION NUMBER: 60/089090
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60/089514	PRIOR APPLICATION NUMBER: 60/089514
198-06-16	PRIOR FILING DATE: 198-06-16
60/089538	PRIOR APPLICATION NUMBER: 60/089538
198-06-17	PRIOR FILING DATE: 198-06-17
60/089598	PRIOR APPLICATION NUMBER: 60/089598
198-06-17	PRIOR FILING DATE: 198-06-17
60/089653	PRIOR APPLICATION NUMBER: 60/089653
198-06-17	PRIOR FILING DATE: 198-06-17
60/089908	PRIOR APPLICATION NUMBER: 60/089908

Query Match 94.3%; Score 417; DB 13; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLFSAALIPITGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db 24 LRLLLLLFSAALIPITGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83

Qy 86 FRDPRPKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQDTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEEWSMDYVTSOL 205
Db 144 NLMDIQDTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEEWSMDYVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYVDPPTIIPPTTT 442
Db 324 YMLVYVDPPTIIPPTTT 440

Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQQNNSEKKEYFI 440

RESULT 34
US-10-174-590-34
; Sequence 34, Application US/10174590
; Publication No. US20030008352A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C42
; CURRENT APPLICATION NUMBER: US/10/174,590
; CURRENT FILING DATE: 2002-06-18
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-590-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLFSAALIPITGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db 24 LRLLLLLFSAALIPITGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83

Qy 86 FRDPRPKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQDTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEEWSMDYVTSOL 205
Db 144 NLMDIQDTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEEWSMDYVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYVDPPTIIPPTTT 442
Db 324 YMLVYVDPPTIIPPTTT 440

Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQQNNSEKKEYFI 440

RESULT 35
US-10-176-758-34
; Sequence 34, Application US/10176758
; Publication No. US20030008353A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C104
; CURRENT APPLICATION NUMBER: US/10/176,758
; CURRENT FILING DATE: 2002-06-21
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-758-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLFSAALIPITGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db 24 LRLLLLLFSAALIPITGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83

Qy 86 FRDPRPKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQDTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEEWSMDYVTSOL 205
Db 144 NLMDIQDTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEEWSMDYVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 323

; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079786
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081070
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082569
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082797
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/083495
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083496
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083499
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/086023
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/086392
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/086486
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087098
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087208
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02

; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088722
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088740
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088811
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088825
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088863
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089090
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653

Query Match 94.3%; Score 417; DB 14; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLNPRTIY 85

Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPKDSRFFOLLNPFSSSELKVSILTNVSISSDEGRYFCOLYTDPPQESYTTITVLVPPR 145

Db 84 FRDPRPKDSRFFOLLNPFSSSELKVSILTNVSISSDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMIDIQKDTAVEGEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEESDMYTVTSOL 205

Db 144 NLMIDIQKDTAVEGEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEESDMYTVTSOL 203

Qy 206 MLKVHKEDDGVVICQVEHPAVTGNLQTORYLEVQYKPVQHIQNTYPTLQGLTREGDALEL 265

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Db 204 MLKVHKEDDGVPVVCQVEHPAVTGNLQRYLEVQYKPVQHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGNLFINNKNKTNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGSIRAVDHAVIGGVAVVV 385
Db 324 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGSIRAVDHAVIGGVAVVV 383
Qy 386 FAMLCLLIILGRYFARHKGYTFTHAKGADDAADATAIINAEAGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGYTFTHAKGADDAADATAIINAEAGGQNNSEKKEYFI 440

RESULT 38
US-10-176-483-34
; Sequence 34, Application US/10176483
; Publication No. US20030017541A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C68
; CURRENT APPLICATION NUMBER: US/10/176,483
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-483-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDPRPKDSRFQLLNFSSELKVSNTVNSISDEGRYFCQLYTDPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSELKVSNTVNSISDEGRYFCQLYTDPQESYTTITVLVPPR 143
Qy 146 NLMIDIQKDTAVEGEEIEVNCATAMASKPATIRWFKGNTELKKGSEVEEWSDMYVTSOL 205
Db 144 NLMIDIQKDTAVEGEEIEVNCATAMASKPATIRWFKGNTELKKGSEVEEWSDMYVTSOL 203
Qy 206 MLKVHKEDDGVPVVCQVEHPAVTGNLQRYLEVQYKPVQHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPVVCQVEHPAVTGNLQRYLEVQYKPVQHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGNLFINNKNKTNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGSIRAVDHAVIGGVAVVV 385
Db 324 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGSIRAVDHAVIGGVAVVV 383
Qy 386 FAMLCLLIILGRYFARHKGYTFTHAKGADDAADATAIINAEAGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGYTFTHAKGADDAADATAIINAEAGGQNNSEKKEYFI 440

RESULT 40
US-10-176-914-34
; Sequence 34, Application US/10176914
; Publication No. US20030017543A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
```

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Qy 386 FAMLCLLIILGRYFARHKGYTFTHAKGADDAADATAIINAEAGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGYTFTHAKGADDAADATAIINAEAGGQNNSEKKEYFI 440

RESULT 39
US-10-176-749-34
; Sequence 34, Application US/10176749
; Publication No. US20030017542A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C76
; CURRENT APPLICATION NUMBER: US/10/176,749
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-749-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDPRPKDSRFQLLNFSSELKVSNTVNSISDEGRYFCQLYTDPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSELKVSNTVNSISDEGRYFCQLYTDPQESYTTITVLVPPR 143
Qy 146 NLMIDIQKDTAVEGEEIEVNCATAMASKPATIRWFKGNTELKKGSEVEEWSDMYVTSOL 205
Db 144 NLMIDIQKDTAVEGEEIEVNCATAMASKPATIRWFKGNTELKKGSEVEEWSDMYVTSOL 203
Qy 206 MLKVHKEDDGVPVVCQVEHPAVTGNLQRYLEVQYKPVQHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPVVCQVEHPAVTGNLQRYLEVQYKPVQHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGNLFINNKNKTNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGSIRAVDHAVIGGVAVVV 385
Db 324 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGSIRAVDHAVIGGVAVVV 383
Qy 386 FAMLCLLIILGRYFARHKGYTFTHAKGADDAADATAIINAEAGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGYTFTHAKGADDAADATAIINAEAGGQNNSEKKEYFI 440

RESULT 40
US-10-176-914-34
; Sequence 34, Application US/10176914
; Publication No. US20030017543A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
```

```
; APPLICANT: Chen,Jian
; APPLICANT: Desnoyers,Luc
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Pan,James
; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C83
; CURRENT APPLICATION NUMBER: US/10/176,914
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-176-914-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVLSTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVLSTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQDQTAVEGEIEVNTCTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEIEVNTCTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 442
Db 324 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 440

RESULT 41
US-10-176-915-34
; Sequence 34, Application US/10176915
; Publication No. US20030017544A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C83
; CURRENT APPLICATION NUMBER: US/10/173,706
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-173-706-34
```

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; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C110
; CURRENT APPLICATION NUMBER: US/10/176,915
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-176-915-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVLSTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVLSTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQDQTAVEGEIEVNTCTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEIEVNTCTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 442
Db 324 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 440

RESULT 42
US-10-173-706-34
; Sequence 34, Application US/10173706
; Publication No. US2003002293A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C7
; CURRENT APPLICATION NUMBER: US/10/173,706
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-173-706-34
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Db 264 TCEAIGKQPVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIIVGKAHSD 323
Qy 326 YMLVYDPPPTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYDPPPTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 45
US-10-176-482-34
; Sequence 34, Application US/10176482
; Publication No. US20030022296A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C70
; CURRENT APPLICATION NUMBER: US/10/176,482
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-482-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQDQTAVEGEIEVNTAMASKPATIRFKNGTELKGSSEVSESDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEIEVNTAMASKPATIRFKNGTELKGSSEVSESDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQYKPVHIOQTYPLOGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQYKPVHIOQTYPLOGLTREGDALEL 263

Qy 266 TCEAIGKQPVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIIVGKAHSD 325
Db 264 TCEAIGKQPVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIIVGKAHSD 323

Qy 326 YMLVYDPPPTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYDPPPTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440
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RESULT 46
US-10-176-757-34
; Sequence 34, Application US/10176757
; Publication No. US20030022297A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C86
; CURRENT APPLICATION NUMBER: US/10/176,757
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-757-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQDQTAVEGEIEVNTAMASKPATIRFKNGTELKGSSEVSESDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEIEVNTAMASKPATIRFKNGTELKGSSEVSESDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQYKPVHIOQTYPLOGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQYKPVHIOQTYPLOGLTREGDALEL 263

Qy 266 TCEAIGKQPVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIIVGKAHSD 325
Db 264 TCEAIGKQPVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIIVGKAHSD 323

Qy 326 YMLVYDPPPTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYDPPPTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 47
US-10-176-913-34
; Sequence 34, Application US/10176913
; Publication No. US20030022298A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
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; APPLICANT: Gurney,Austin L.
; APPLICANT: Pan,James
; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C66
; CURRENT APPLICATION NUMBER: US/10/176,913
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-913-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 85
DB 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 83

QY 86 FRDPRPLKDSRFQNLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
DB 84 FRDPRPLKDSRFQNLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

QY 146 NLMDIQKDTAVEGEEIEVNCNTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
DB 144 NLMDIQKDTAVEGEEIEVNCNTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203

QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 263

QY 266 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323

QY 326 YMLYVDDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWVAVV 385
DB 324 YMLYVDDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWVAVV 383

QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 48
US-10-180-552-34
; Sequence 34, Application US/10180552
; Publication No. US20030022300A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C147
; CURRENT APPLICATION NUMBER: US/10/180,557
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-180-552-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 85
DB 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 83

QY 86 FRDPRPLKDSRFQNLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
DB 84 FRDPRPLKDSRFQNLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

QY 146 NLMDIQKDTAVEGEEIEVNCNTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
DB 144 NLMDIQKDTAVEGEEIEVNCNTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203

QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 263

QY 266 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323

QY 326 YMLYVDDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWVAVV 385
DB 324 YMLYVDDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWVAVV 383

QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 48
US-10-180-552-34
; Sequence 34, Application US/10180552
; Publication No. US20030022300A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C153
; CURRENT APPLICATION NUMBER: US/10/180,552
; CURRENT FILING DATE: 2002-06-25
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; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-180-552-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 85
DB 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 83

QY 86 FRDPRPLKDSRFQNLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
DB 84 FRDPRPLKDSRFQNLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

QY 146 NLMDIQKDTAVEGEEIEVNCNTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
DB 144 NLMDIQKDTAVEGEEIEVNCNTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203

QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 263

QY 266 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323

QY 326 YMLYVDDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWVAVV 385
DB 324 YMLYVDDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWVAVV 383

QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 49
US-10-180-557-34
; Sequence 34, Application US/10180557
; Publication No. US20030022301A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C147
; CURRENT APPLICATION NUMBER: US/10/180,557
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-180-557-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83
Qy 86 FRDPRPLKDSRFQNLNFSSELKSLVSLNVSISDGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQNLNFSSELKSLVSLNVSISDGRYFCQLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEESDMYTVTSOL 205
Db 144 NLMDIQKTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEESDMYTVTSOL 203
Qy 206 MLKVHKEDDGPVVICQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVICQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 442
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYPARHKGYTFTHAEGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYTFTHAEGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 50
US-10-173-700-34
; Sequence 34, Application US/10173700
; Publication No. US20030027262A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C14
; CURRENT APPLICATION NUMBER: US/10/173,700
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-700-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83
Qy 86 FRDPRPLKDSRFQNLNFSSELKSLVSLNVSISDGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQNLNFSSELKSLVSLNVSISDGRYFCQLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEESDMYTVTSOL 205
Db 144 NLMDIQKTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEESDMYTVTSOL 203

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Db 144 NLMDIQKTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEESDMYTVTSOL 203
Qy 206 MLKVHKEDDGPVVICQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVICQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 442
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYPARHKGYTFTHAEGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYTFTHAEGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 51
US-10-174-572-34
; Sequence 34, Application US/10174572
; Publication No. US20030027263A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C40
; CURRENT APPLICATION NUMBER: US/10/174,572
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-572-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83
Qy 86 FRDPRPLKDSRFQNLNFSSELKSLVSLNVSISDGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQNLNFSSELKSLVSLNVSISDGRYFCQLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEESDMYTVTSOL 205
Db 144 NLMDIQKTAVEGEEIEVNCNTAMASKPATIRFWKGNTELKKGSEVEESDMYTVTSOL 203
Qy 206 MLKVHKEDDGPVVICQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVICQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 442

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; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C28
; CURRENT APPLICATION NUMBER: US/10/174,588
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-588-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEGRYFCOLYTPDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEGRYFCOLYTPDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSQ 205
Db 144 NLMDIQKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSQ 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQHIQMTYPLQGLTREGDALE 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQHIQMTYPLQGLTREGDALE 263

Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYPARHKGYFTTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYFTTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 55
US-10-175-739-34
; Sequence 34, Application US/10175739
; Publication No. US20030027267A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C61
; CURRENT APPLICATION NUMBER: US/10/175,740
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-740-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEGRYFCOLYTPDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEGRYFCOLYTPDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSQ 205
Db 144 NLMDIQKOTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSQ 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQHIQMTYPLQGLTREGDALE 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQHIQMTYPLQGLTREGDALE 263

Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYPARHKGYFTTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYFTTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 56
US-10-175-740-34
; Sequence 34, Application US/10175740
; Publication No. US20030027268A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C61
; CURRENT APPLICATION NUMBER: US/10/175,740
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-740-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83
```

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QY      86 FRDPRPLKDSRFQLLNFSSSELKVSLSLTVNSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
      |||||||
Db      84 FRDPRPLKDSRFQLLNFSSSELKVSLSLTVNSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
      |||||||
QY     146 NLMIDIQKTAVGEETEVNCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYVTSQ 205
      |||||||
Db     144 NLMIDIQKTAVGEETEVNCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYVTSQ 203
      |||||||
QY     206 MLKVHKEDDGPVLCQVEHEPAVTCNLQTORYLEVOYKPOVHIQMTYPLQGLTREGDALEL 265
      |||||||
Db     204 MLKVHKEDDGPVLCQVEHEPAVTCNLQTORYLEVOYKPOVHIQMTYPLQGLTREGDALEL 263
      |||||||
QY     266 TCBAIGKQPQVMVWTVRVDDEMPQHAVLSGPNLFINNLTNDGTGTCRCEASNIVGRAHSD 325
      |||||||
Db     264 TCBAIGKQPQVMVWTVRVDDEMPQHAVLSGPNLFINNLTNDGTGTCRCEASNIVGRAHSD 323
      |||||||
QY     326 YMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
      |||||||
Db     324 YMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
      |||||||
QY     386 FAMLCLLIILGRYFARHKGYFTHEAKGADDAADATTAIINASGGQNNSEKKEYFI 442
      |||||||
Db     384 FAMLCLLIILGRYFARHKGYFTHEAKGADDAADATTAIINASGGQNNSEKKEYFI 440
      |||||||

RESULT 57
US-10-175-743-34
; Sequence 34, Application US/10175743
; Publication No. US20030027269A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Deenoymers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C52
; CURRENT APPLICATION NUMBER: US/10/175,743
; CURRENT FILING DATE: 2002-06-16
; PRIOR APPLICATION NUMBER: 10/052586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063564
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063734
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/063870
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066120
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066466
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066772
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: 1997-12-11
; PRIOR APPLICATION NUMBER: 60/069425
; PRIOR FILING DATE: 1997-12-12
; PRIOR APPLICATION NUMBER: 60/069870
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/068017
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079786
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081070
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082569
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082797
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/083495
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083496
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083499
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQDTAVGEEIEVNCTAMASKPATTIRWFKGNTELKKGSEVEWSDMYTTSOL 205
Db 144 NLMDIQDTAVGEEIEVNCTAMASKPATTIRWFKGNTELKKGSEVEWSDMYTTSOL 203

Qy 206 MLKVHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWAVVV 385
Db 324 YMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWAVVV 383

Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEKGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEKGQNNSEKKEYFI 440

RESULT 59
US-10-176-492-34
; Sequence 34, Application US/10176492
; Publication No. US20030027272A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C107
; CURRENT APPLICATION NUMBER: US/10/176,492
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-492-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQDTAVGEEIEVNCTAMASKPATTIRWFKGNTELKKGSEVEWSDMYTTSOL 205
Db 144 NLMDIQDTAVGEEIEVNCTAMASKPATTIRWFKGNTELKKGSEVEWSDMYTTSOL 203

Qy 206 MLKVHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWAVVV 385
Db 324 YMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWAVVV 383

Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEKGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEKGQNNSEKKEYFI 440

RESULT 60
US-10-176-747-34
; Sequence 34, Application US/10176747
; Publication No. US20030027273A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C92
; CURRENT APPLICATION NUMBER: US/10/176,747
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-747-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQDTAVGEEIEVNCTAMASKPATTIRWFKGNTELKKGSEVEWSDMYTTSOL 205
Db 144 NLMDIQDTAVGEEIEVNCTAMASKPATTIRWFKGNTELKKGSEVEWSDMYTTSOL 203

Qy 206 MLKVHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323


```
; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C93
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-987-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKTAVAGEEIEVNCETAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKTAVAGEEIEVNCETAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGVPIQVEHPAVTGNLTORYLEYQVKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPIQVEHPAVTGNLTORYLEYQVKPOVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEQQNNSEKKEYFI 440

RESULT 64
US-10-176-992-34
; Sequence 34, Application US/10176992
; Publication No. US20030027279A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C89
; CURRENT APPLICATION NUMBER: US/10/176,993
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-993-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 85
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Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83
Qy 86 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 145
Db 84 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVEGEIEVNTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEIEVNTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTT 385
Db 324 YMLVYVDPPTTIPPTTT 383
Qy 386 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 66

US-10-184-658-34
; Sequence 34, Application US/10184658
; Publication No. US20030027281A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C228
; CURRENT APPLICATION NUMBER: US/10/184,658
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-184-658-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83
Qy 86 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 145
Db 84 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVEGEIEVNTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEIEVNTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTT 385
Db 324 YMLVYVDPPTTIPPTTT 383
Qy 386 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 67

US-10-176-991-34
; Sequence 34, Application US/10176991
; Publication No. US20030027324A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C122
; CURRENT APPLICATION NUMBER: US/10/176,991
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-991-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83
Qy 86 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 145
Db 84 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVEGEIEVNTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEIEVNTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTT 385
Db 324 YMLVYVDPPTTIPPTTT 383


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; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C18
; CURRENT APPLICATION NUMBER: US/10/173,705
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-705-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGVPVTCQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPVTCQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 71
US-10-174-576-34
; Sequence 34, Application US/10174576
; Publication No. US20030032104A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C23
; CURRENT APPLICATION NUMBER: US/10/174,576
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C18
; CURRENT APPLICATION NUMBER: US/10/173,705
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-705-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGVPVTCQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPVTCQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440
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US-10-174-576-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGVPVTCQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPVTCQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 72
US-10-174-585-34
; Sequence 34, Application US/10174585
; Publication No. US20030032105A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C37
; CURRENT APPLICATION NUMBER: US/10/174,585
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C23
; CURRENT APPLICATION NUMBER: US/10/173,705
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-585-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
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Db 84 FRDPRPKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
QY 146 NLMDIQKOTAVAGEEIEVNVCTAMASKPATIIRWFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKOTAVAGEEIEVNVCTAMASKPATIIRWFKGNTELKKGSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVVICQVEHPAVTGNLTQRYLEVQYKPVQVHIQWYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVICQVEHPAVTGNLTQRYLEVQYKPVQVHIQWYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVMVWTVRVDDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWTVRVDDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVYDPPPTIIPPTTT 385
Db 324 YMLYVYDPPPTIIPPTTT 383
QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGGQNNSEKKEYFI 440

RESULT 73

US-10-174-586-34
; Sequence 34, Application US/10174586
; Publication No. US20030032106A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C24
; CURRENT FILING DATE: 2002-06-18
; PRIOR APPLICATION NUMBER: 60/052586
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063564
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063734
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/063870
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066120
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066466
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066772
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: 1997-12-11
; PRIOR APPLICATION NUMBER: 60/069425

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAALIPTDGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPTDGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83
QY 86 FRDPRPKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
QY 146 NLMDIQKOTAVAGEEIEVNVCTAMASKPATIIRWFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKOTAVAGEEIEVNVCTAMASKPATIIRWFKGNTELKKGSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVVICQVEHPAVTGNLTQRYLEVQYKPVQVHIQWYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVICQVEHPAVTGNLTQRYLEVQYKPVQVHIQWYPLQGLTREGDALEL 263

;
; PRIOR FILING DATE: 1997-12-12
; PRIOR APPLICATION NUMBER: 60/059870
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/068017
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/078866
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079786
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081070
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082569
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082797
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/083495
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083496
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083499
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15

;
; PRIOR APPLICATION NUMBER: 60/086023
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/086392
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/086486
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087098
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087208
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088722
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088740
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088811
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088825
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088863
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089090
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	26	LRLLLLFSAALIPTGDCQNLFTKDVTVIEGEVATISCVQNKSDDSVIQLLNPNRQTIIY	85
Dd	24	LRLLLLFSAALIPTGDCQNLFTKDVTVIEGEVATISCVQNKSDDSVIQLLNPNRQTIIY	83
Qy	86	FRDFRPLKDSRFQLLNFFSSSELKSVLTNNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR	145
Dd	84	FRDFRPLKDSRFQLLNFFSSSELKSVLTNNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR	143
Qy	146	NLMIDIQKDTAVEGBEIEIYNCTAMASKPATIRWFKGNTELKGKSEVEEWSDMYTVTSOL	205
Dd	144	NLMIDIQKDTAVEGBEIEIYNCTAMASKPATIRWFKGNTELKGKSEVEEWSDMYTVTSOL	203
Qy	206	MLKVHKEDDGVPVICOVEHPAVTGNLQTRYLEVQYKPQVHIQMTYPLQGLITREGDALEL	265
Dd	204	MLKVHKEDDGVPVICOVEHPAVTGNLQTRYLEVQYKPQVHIQMTYPLQGLITREGDALEL	263
Qy	266	TCEAIGKQPVMVWVRVDENPQHAVLSGPNLFINNINKTDNGTYRCASNIIVGKAHSD	325
Dd	264	TCEAIGKQPVMVWVRVDENPQHAVLSGPNLFINNINKTDNGTYRCASNIIVGKAHSD	323
Qy	326	YMLYVYDDPTTPPIPPPTTTTTTTTTTTTTTTTTTTTTILTIITDSRAGEEGSIRAVDHAVIGGWAVVV	385
Dd	324	YMLYVYDDPTTPPIPPPTTTTTTTTTTTTTTTTTTTTTILTIITDSRAGEEGSIRAVDHAVIGGWAVVV	383
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Dd	384	FAMLCILLIILGRYFARHKGTYYTHEAKGADDAADADTAIINAEQQONNSEKKKEYFI	440

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RESULT 75
US-10-176-481-34
; Sequence 34, Application US/10176481
; Publication No. US20030032108A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P34301C98
; CURRENT APPLICATION NUMBER: US/10/176,481
; CURRENT FILING DATE: 2002-06-21
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-481-34

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Db	204	MLKVHKEDDGVVPVICQVEHPAVTGNLQRYLEVQYKQVHHIQMTYPIQGLTREGDALE	263
Qy	266	TCEAIGKQPQVMVTVWRVDDSEMPQHAVLSGNPLFINNLKNTDNGYRCASINIVKAHSD	325
Db	264	TCEAIGKQPQVMVTVWRVDDSEMPQHAVLSGNPLFINNLKNTDNGYRCASINIVKAHSD	323
Qy	326	YMLXVYDPPTTIPPTTTTTTTTTTTTTTTTTILTIITDSRAGEGSIKRAVDHAVIGGVVAVV	385
Db	324	YMLXVYDPPTTIPPTTTTTTTTTTTTTTTTTILTIITDSRAGEGSIKRAVDHAVIGGVVAVV	383
Qy	386	FAMLCLLIILGRYPARHKGTFTTHEAKGADDAADATAIINAEGQNNSEKKEFYI	442
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Job time : 116.306 secs			

Search completed: June 28, 2005, 10:39:06
Job time : 116.306 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 28, 2005, 10:08:59 ; Search time 30.659 Seconds
(without alignments)
1076.191 Million cell updates/sec

Title: US-10-622-237-2
Perfect score: 442
Sequence: 1 MASVLPSSGQCAAAAAA.....AIINAEQQNNSEKKEYFI 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 513545 seqs, 74649064 residues

Word size : 0

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

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- 4: /cgm2_6/ptodata/1/iaa/6B_COMB.pep.*
- 5: /cgm2_6/ptodata/1/iaa/PTUS_COMB.pep.*
- 6: /cgm2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	442	100.0	442	4	US-09-778-510-20
2	442	100.0	442	4	US-09-930-803-1
3	417	94.3	440	4	US-03-866-028-61
4	417	94.3	440	4	US-09-944-457-61
5	150	33.9	423	4	US-09-778-510-22
6	15	3.4	41	4	US-09-060-767B-5
7	14	3.2	130	3	US-08-700-651-9
8	14	3.2	130	3	US-08-928-361B-14
9	14	3.2	130	4	US-09-588-995A-14
10	14	3.2	175	3	US-08-700-651-12
11	14	3.2	175	3	US-08-928-361B-17
12	14	3.2	175	4	US-09-588-995A-17
13	14	3.2	197	4	US-09-248-796A-21069
14	14	3.2	216	3	US-08-928-361B-8
15	14	3.2	216	3	US-08-928-361B-27
16	14	3.2	216	4	US-09-588-995A-8
17	14	3.2	249	3	US-08-700-651-15
18	14	3.2	249	3	US-08-928-361B-20
19	14	3.2	249	4	US-09-588-995A-20
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22	14	3.2	1721	3	US-08-928-361B-6
23	14	3.2	1721	4	US-09-588-995A-6
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25	14	3.2	1837	4	US-09-588-995A-5
26	13	2.9	44	4	US-09-205-258-953
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100	13	2.9	57	3	US-09-248-796A-20742

; PRIOR APPLICATION NUMBER: 60/074,092
 ; PRIOR FILING DATE: February 9, 1998
 ; PRIOR APPLICATION NUMBER: 60/075,945
 ; PRIOR FILING DATE: February 25, 1998
 ; PRIOR APPLICATION NUMBER: 60/112,850
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 60/113,296
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 60/146,222
 ; PRIOR FILING DATE: July 28, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330
 ; PRIOR FILING DATE: September 16, 1998
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108
 ; PRIOR FILING DATE: December 1, 1998
 ; PRIOR APPLICATION NUMBER: 09/216,021
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 09/218,517
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 09/254,311
 ; PRIOR FILING DATE: March 3, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252
 ; PRIOR FILING DATE: June 22, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: September 15, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409
 ; PRIOR FILING DATE: No. 6734288ember 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: No. 6734288ember 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301
 ; PRIOR FILING DATE: December 1, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: December 16, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565
 ; PRIOR FILING DATE: February 11, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: February 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841
 ; PRIOR FILING DATE: March 2, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439
 ; PRIOR FILING DATE: March 30, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042
 ; PRIOR FILING DATE: May 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710
 ; PRIOR FILING DATE: July 28, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678
 ; PRIOR FILING DATE: December 1, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520
 ; PRIOR FILING DATE: February 28, 2001
 ; NUMBER OF SEQ ID NOS: 120
 ; SEQ ID NO 61
 ; LENGTH: 440
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; ORGANIZATION: 457-61
 US-09-944-457-61
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 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIIY 85
 DB 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIIY 83
 QY 86 FRDPRDKDSRQLLNFSSSELKVSILTNVISDEGRYFCOLYTDPQESYTTITVLVPPR 145
 DB 84 FRDPRDKDSRQLLNFSSSELKVSILTNVISDEGRYFCOLYTDPQESYTTITVLVPPR 143
 QY 146 NLMDIQKTAVEGEIEEIVNCNTAMASKPATTIRWFKGNTELKGKSEVEEDSWMTVTSQL 205
 DB 144 NLMDIQKTAVEGEIEEIVNCNTAMASKPATTIRWFKGNTELKGKSEVEEDSWMTVTSQL 203
 QY 206 MLKVHKEDDGPVPCQVEHPAVTGNLTQRYLEVOYKPQVHIQMTYPIQGLITREGDALEL 265


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; ORGANISM: Leishmania
US-09-060-767B-5

Query Match          3.2%; Score 15; DB 4; Length 41;
Best Local Similarity 100.0%; Pred. No. 8.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
Db 1 PPTTTTTTTTTTTT 15

RESULT 7
US-08-700-651-9
; Sequence 9, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700.651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415.751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-9

Query Match          3.2%; Score 14; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 2.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PPTTTTTTTTTTTT 353
Db 48 PPTTTTTTTTTTTT 61

RESULT 8
US-08-928-361B-14
; Sequence 14, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928.361B
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; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 130 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-14

Query Match          3.2%; Score 14; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 2.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PPTTTTTTTTTTTT 353
Db 48 PPTTTTTTTTTTTT 61

RESULT 9
US-09-588-995A-14
; Sequence 14, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-14

Query Match          3.2%; Score 14; DB 4; Length 130;
Best Local Similarity 100.0%; Pred. No. 2.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PPTTTTTTTTTTTT 353
Db 48 PPTTTTTTTTTTTT 61

RESULT 10
US-08-700-651-12
; Sequence 12, Application US/08700651B
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; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-12

Query Match      3.2%; Score 14; DB 3; Length 175;
Best Local Similarity 100.0%; Pred. No. 2.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTNTTTTTTTTTT 353
Db      87 PTTTNTTTTTTTTTT 100

RESULT 11
US-08-928-361B-17
; Sequence 17, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 175 amino acids
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; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-17

Query Match      3.2%; Score 14; DB 3; Length 175;
Best Local Similarity 100.0%; Pred. No. 2.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTNTTTTTTTTTT 353
Db      87 PTTTNTTTTTTTTTT 100

RESULT 12
US-09-588-995A-17
; Sequence 17, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-17

Query Match      3.2%; Score 14; DB 4; Length 175;
Best Local Similarity 100.0%; Pred. No. 2.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTNTTTTTTTTTT 353
Db      87 PTTTNTTTTTTTTTT 100

RESULT 13
US-09-248-796A-21069
; Sequence 21069, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21069
; LENGTH: 197
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; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-21069

Query Match          3.2%; Score 14; DB 4; Length 197;
Best Local Similarity 100.0%; Pred. No. 3.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTTT 354
Db 113 TTTTNTTTTTTTTT 126

RESULT 14
US-08-928-361B-8
; Sequence 8, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/928,361B
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-8

Query Match          3.2%; Score 14; DB 3; Length 216;
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTNTTTTTTTTT 353
Db 70 PTTTNTTTTTTTTT 83

RESULT 15
US-08-928-361B-27
; Sequence 27, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/928,361B
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-8

Query Match          3.2%; Score 14; DB 3; Length 216;
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTNTTTTTTTTT 353
Db 70 PTTTNTTTTTTTTT 83

RESULT 16
US-09-588-995A-8
; Sequence 8, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
```

```
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/928,361B
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-27

Query Match          3.2%; Score 14; DB 3; Length 216;
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTNTTTTTTTTT 353
Db 116 PTTTNTTTTTTTTT 129

RESULT 16
US-09-588-995A-8
; Sequence 8, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
```

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; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-8

Query Match          3.2%; Score 14; DB 4; Length 216;
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTT 353
Db 70 PTTTTTTTTTTT 83

RESULT 17
US-08-700-651-15
; Sequence 15, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700, 651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415, 751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-15

Query Match          3.2%; Score 14; DB 3; Length 249;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTT 353
Db 165 PTTTTTTTTTTT 178

RESULT 18
US-08-928-361B-20
; Sequence 20, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 249 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-20

Query Match          3.2%; Score 14; DB 3; Length 249;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTT 353
Db 165 PTTTTTTTTTTT 178

RESULT 19
US-09-588-995A-20
; Sequence 20, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-20

Query Match          3.2%; Score 14; DB 4; Length 249;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTT 353
Db 165 PTTTTTTTTTTT 178
```

```

RESULT 20
US-07-867-106-3
; Sequence 3, Application US/07867106
; Patent No. 5389526
; GENERAL INFORMATION:
; APPLICANT: Slade, Martin B
; APPLICANT: Chang, Andy C M
; APPLICANT: Williams, Keith L
; TITLE OF INVENTION: Improved Plasmid Vectors for Cellular
; TITLE OF INVENTION: Slime Moulds of the Genus Dictyostelium
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5389526ris
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/867,106
; FILING DATE: 19920625
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU PJ 7187
; APPLICATION NUMBER: PCT/AU90/00530
; FILING DATE: 02-NOV-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Peeney, Joanne Longo
; REGISTRATION NUMBER: 35,134
; REFERENCE/DOCKET NUMBER: RICE-0002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 887 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-867-106-3

Query Match 3.2%; Score 14; DB 1; Length 887;
Best Local Similarity 100.0%; Pred. No. 0.00013;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
Db 250 PTTTTTTTTTTTTT 263

RESULT 21
US-08-700-651-5
; Sequence 5, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03

Query Match 3.2%; Score 14; DB 1; Length 887;
Best Local Similarity 100.0%; Pred. No. 0.00013;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
Db 250 PTTTTTTTTTTTTT 263

RESULT 22
US-08-928-361B-6
; Sequence 6, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1721 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-6

Query Match 3.2%; Score 14; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
Db 307 PTTTTTTTTTTTTT 320

RESULT 23
US-08-928-361B-6
; Sequence 6, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1721 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-6

Query Match 3.2%; Score 14; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
Db 307 PTTTTTTTTTTTTT 320

RESULT 23
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; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1721
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-08-700-651-5

Query Match 3.2%; Score 14; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
Db 307 PTTTTTTTTTTTTT 320

RESULT 22
US-08-928-361B-6
; Sequence 6, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1721 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-6

Query Match 3.2%; Score 14; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
Db 307 PTTTTTTTTTTTTT 320

RESULT 23
```

```
US-09-588-995A-6
; Sequence 6, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1721
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-6

Query Match          3.2%; Score 14; DB 4; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTTTTTTTTTTT 353
DB      307 PTTTTTTTTTTTTT 320

RESULT 24
US-08-928-361B-5
; Sequence 5, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
```

```
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1837 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-5

Query Match          3.2%; Score 14; DB 3; Length 1837;
Best Local Similarity 100.0%; Pred. No. 0.00026;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTTTTTTTTTTT 353
DB      378 PTTTTTTTTTTTTT 391

RESULT 25
US-09-588-995A-5
; Sequence 5, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1837
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-5

Query Match          3.2%; Score 14; DB 4; Length 1837;
Best Local Similarity 100.0%; Pred. No. 0.00026;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTTTTTTTTTTT 353
DB      378 PTTTTTTTTTTTTT 391

RESULT 26
US-09-205-258-953
; Sequence 953, Application US/09205258
; Patent No. 6525174
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/09/205,258
; CURRENT FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: PCT/US98/11422
; EARLIER FILING DATE: 1998-06-04
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EARLIER APPLICATION NUMBER: 60/048,885
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,375
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,881
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,880
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,896
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,020
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,876
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,895
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,884
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,894
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,971
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,964
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,882
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,899
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,893
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,900
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,901
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,892
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,915
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,019
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,970
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,972
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,916
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,373
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,875
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,374
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,917
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,949
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,974
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,883
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,897
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,898
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,962
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,963
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,877
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,878
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/070,923

EARLIER FILING DATE: 1997-12-18
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
NUMBER OF SEQ ID NOS: 1227
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 953
LENGTH: 44
TYPE: PRT
ORGANISM: Homo sapiens
US-09-205-258-953

Query Match 2.9%; Score 13; DB 4; Length 44;
Best Local Similarity 100.0%; Pred. No. 7.1e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
|||||
DB 21 DADTAIINAEQQ 33

RESULT 27

US-08-900-230-59
Sequence 59, Application US/08900230
Patent No. 6323197
GENERAL INFORMATION:
APPLICANT: Bard, Jonathan A.
TITLE OF INVENTION: DNA ENCODING GALANN GALR3 RECEPTORS AND
TITLE OF INVENTION: USES THEREOF
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of The Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 11036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/900,230
FILING DATE: 23-JUL-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 59:
SEQUENCE CHARACTERISTICS:
LENGTH: 57 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: NO
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-900-230-59

Query Match 2.9%; Score 13; DB 3; Length 57;
Best Local Similarity 100.0%; Pred. No. 9.1e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTITTTTTTTT 353
|||||
DB 1 TTTTITTTTTTTT 13

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RESULT 28
US-09-060-767B-9
; Sequence 9, Application US/09060767B
; Patent No. 6720152
; GENERAL INFORMATION:
; APPLICANT: Chandrashekar, Ramaswamy
; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for
; FILE REFERENCE: BUCH 9986
; CURRENT APPLICATION NUMBER: US/09/060,767B
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/043,332
; PRIOR FILING DATE: 1997-04-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 9
; LENGTH: 57
; TYPE: PRT
; ORGANISM: Histoplasma Capsulatum
US-09-060-767B-9

Query Match      2.9%; Score 13; DB 4; Length 57;
Best Local Similarity 100.0%; Pred. No. 9.1e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 338 PPPTTTTTTTTTT 350
DB 16 PPPTTTTTTTTTT 28

RESULT 29
US-09-248-796A-23083
; Sequence 23083, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 23083
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-23083

Query Match      2.9%; Score 13; DB 4; Length 63;
Best Local Similarity 100.0%; Pred. No. 0.0001;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 352
DB 36 PTTTTTTTTTTTTT 48

RESULT 30
US-09-248-796A-25289
; Sequence 25289, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
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; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 25289
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-25289

Query Match      2.9%; Score 13; DB 4; Length 75;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 353
DB 7 TTTTTTTTTTTTTT 19

RESULT 31
US-08-700-651-14
; Sequence 14, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-14

Query Match      2.9%; Score 13; DB 3; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 353
DB 18 TTTTTTTTTTTTTT 30

RESULT 32
US-08-928-361B-19
; Sequence 19, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
```


;; COUNTRY: USA
;; ZIP: 94306-1840
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA: US/08/928,361B
;; APPLICATION NUMBER: US/08/928,361B
;; FILING DATE: 12-SEP-1997
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 60/026,062
;; FILING DATE: 13-SEP-1996
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Vetry, Hana
;; REGISTRATION NUMBER: 30,518
;; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650-324-1677
;; TELEFAX: 650-324-1678
;; INFORMATION FOR SEQ ID NO: 19:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 91 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-928-361B-19

Query Match 2.9%; Score 13; DB 3; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 18 TTTT TTTT TTTT 30

RESULT 33
US-09-588-995A-19
; Sequence 19, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-19

Query Match 2.9%; Score 13; DB 4; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 18 TTTT TTTT TTTT 30

RESULT 34
US-09-270-767-36192
; Sequence 36192, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36192
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-36192

Query Match 2.9%; Score 13; DB 4; Length 106;
Best Local Similarity 100.0%; Pred. No. 0.00016;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 89 TTTT TTTT TTTT 101

RESULT 35
US-09-270-767-51409
; Sequence 51409, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51409
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-51409

Query Match 2.9%; Score 13; DB 4; Length 106;
Best Local Similarity 100.0%; Pred. No. 0.00016;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 89 TTTT TTTT TTTT 101

RESULT 36
US-08-700-651-11
; Sequence 11, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF CRYPTOSPORIDIUM PARVUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)

; CURRENT APPLICATION NUMBER: US/08/700,651B
; EARLIER FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 124
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-11

Query Match 2.9%; Score 13; DB 3; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
| | | | | | | | | |
Db 33 TTTT TTTT TTTT TTTT 45

RESULT 37
US-08-928-361B-16
; Sequence 16, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/928,361B
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-16

Query Match 2.9%; Score 13; DB 3; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
| | | | | | | | | |
Db 33 TTTT TTTT TTTT TTTT 45

RESULT 38
US-09-588-995A-16
; Sequence 16, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 124
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-16

Query Match 2.9%; Score 13; DB 4; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
| | | | | | | | | |
Db 33 TTTT TTTT TTTT TTTT 45

RESULT 39
US-08-700-651-7
; Sequence 7, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-7

Query Match 2.9%; Score 13; DB 3; Length 128;

Best Local Similarity 100.0%; Pred. No. 0.00019; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
Db 37 TTTTNTTTTTTTT 49

RESULT 40
US-08-928-361B-12
; Sequence 12, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/928,361B
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-12

Query Match 2.9%; Score 13; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
Db 37 TTTTNTTTTTTTT 49

RESULT 41
US-09-588-995A-12
; Sequence 12, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND

; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-12

Query Match 2.9%; Score 13; DB 4; Length 128;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
Db 37 TTTTNTTTTTTTT 49

RESULT 42
US-08-700-651-8
; Sequence 8, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-8

Query Match 2.9%; Score 13; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 0.0002;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
Db 39 TTTTNTTTTTTTT 51

RESULT 43
US-08-928-361B-13
; Sequence 13, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,

; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/928,361B
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 130 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-928-361B-13

Query Match 2.9%; Score 13; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 0.0002;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 39 TTTT TTTT TTTT TTTT 51

RESULT 44
US-09-588-995A-13
; Sequence 13, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR FILING DATE: 1997-03-27
; PRIOR FILING DATE: 1997-03-27
; PRIOR FILING DATE: 1997-03-27
; PRIOR FILING DATE: 1997-09-12
; PRIOR FILING DATE: 1997-09-12
; PRIOR FILING DATE: 1997-09-12
; PRIOR FILING DATE: 1996-08-14
; PRIOR FILING DATE: 1996-08-14
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 13
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-13

Query Match 2.9%; Score 13; DB 4; Length 130;
Best Local Similarity 100.0%; Pred. No. 0.0002;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 39 TTTT TTTT TTTT TTTT 51

RESULT 45
US-08-700-651-10
; Sequence 10, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-10

Query Match 2.9%; Score 13; DB 3; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 47 TTTT TTTT TTTT TTTT 59

RESULT 46
US-08-928-361B-15
; Sequence 15, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/928,361B
;; FILING DATE: 12-SEP-1997
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 60/026,062
;; FILING DATE: 13-SEP-1996
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Verry, Hana
;; REGISTRATION NUMBER: 30,518
;; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650-324-1677
;; TELEFAX: 650-324-1678
;; INFORMATION FOR SEQ ID NO: 15:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 138 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-928-361B-15

Query Match 2.9%; Score 13; DB 3; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
|||||
Db 47 TTTTNTTTTTTT 59

RESULT 47

;; US-09-588-995A-15
;; Sequence 15, Application US/09588995A
;; Patent No. 6514697
;; GENERAL INFORMATION:
;; APPLICANT: PETERSEN, CAROLYN
;; APPLICANT: BARNES, DEBRA A.
;; APPLICANT: NELSON, RICHARD C.
;; APPLICANT: GUT, JIRI
;; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
;; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
;; FILE REFERENCE: 480.19-5
;; CURRENT APPLICATION NUMBER: US/09/588,995A
;; CURRENT FILING DATE: 2000-06-06
;; PRIOR APPLICATION NUMBER: 08/928,171
;; PRIOR FILING DATE: 1997-03-27
;; PRIOR APPLICATION NUMBER: 08/928,361
;; PRIOR FILING DATE: 1997-09-12
;; PRIOR APPLICATION NUMBER: 08/700,651
;; PRIOR FILING DATE: 1996-08-14
;; PRIOR APPLICATION NUMBER: 08/415,751
;; PRIOR FILING DATE: 1995-04-03
;; NUMBER OF SEQ ID NOS: 115
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 15
;; LENGTH: 138
;; TYPE: PRT
;; ORGANISM: Cryptosporidium parvum
;; US-09-588-995A-15

Query Match 2.9%; Score 13; DB 4; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
|||||
Db 47 TTTTNTTTTTTT 59

RESULT 48
;; US-08-928-361B-18
;; Sequence 18, Application US/08928361B
;; Patent No. 6071518
;; GENERAL INFORMATION:
;; APPLICANT: Petersen, Carolyn
;; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
;; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
;; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
;; TITLE OF INVENTION: SPECIES INFECTIONS
;; NUMBER OF SEQUENCES: 30
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
;; STREET: 385 Sherman Avenue, Suite 6
;; CITY: Palo Alto
;; STATE: CA
;; COUNTRY: USA
;; ZIP: 94306-1840
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/928,361B
;; FILING DATE: 12-SEP-1997
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 60/026,062
;; FILING DATE: 13-SEP-1996
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Verry, Hana
;; REGISTRATION NUMBER: 30,518
;; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650-324-1677
;; TELEFAX: 650-324-1678
;; INFORMATION FOR SEQ ID NO: 18:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 150 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-928-361B-18

Query Match 2.9%; Score 13; DB 3; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.00022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
|||||
Db 62 TTTTNTTTTTTTT 74

RESULT 49

;; US-09-588-995A-18
;; Sequence 18, Application US/09588995A
;; Patent No. 6514697
;; GENERAL INFORMATION:
;; APPLICANT: PETERSEN, CAROLYN
;; APPLICANT: BARNES, DEBRA A.
;; APPLICANT: NELSON, RICHARD C.
;; APPLICANT: GUT, JIRI
;; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
;; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
;; FILE REFERENCE: 480.19-5
;; CURRENT APPLICATION NUMBER: US/09/588,995A
;; CURRENT FILING DATE: 2000-06-06
;; PRIOR APPLICATION NUMBER: 08/928,171
;; PRIOR FILING DATE: 1997-03-27
;; PRIOR APPLICATION NUMBER: 08/928,361

```
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 150
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-18

Query Match      2.9%; Score 13; DB 4; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.00022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTTT 353
Db 62 TTTTNTTTTTTTTT 74

RESULT 50
US-09-248-796A-21631
; Sequence 21631, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21631
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-21631

Query Match      2.9%; Score 13; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 342 TTTTNTTTTTTTTT 354
Db 52 TTTTNTTTTTTTTT 64

RESULT 51
US-08-700-651-13
; Sequence 13, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
```

```
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-13

Query Match      2.9%; Score 13; DB 3; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTTT 353
Db 76 TTTTNTTTTTTTTT 88

RESULT 52
US-09-248-796A-16058
; Sequence 16058, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 16058
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (204)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-16058

Query Match      2.9%; Score 13; DB 4; Length 207;
Best Local Similarity 100.0%; Pred. No. 0.0003;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTTT 353
Db 61 TTTTNTTTTTTTTT 73

RESULT 53
US-09-060-767B-3
; Sequence 3, Application US/09060767B
; Patent No. 6720152
; GENERAL INFORMATION:
; APPLICANT: Weil, Gary
; APPLICANT: Chandrashekar, Ramaswamy
; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for
; FILE REFERENCE: BJCH 9986
; CURRENT APPLICATION NUMBER: US/09/060,767B
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/043,332
; PRIOR FILING DATE: 1997-04-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Histoplasma capsulatum
US-09-060-767B-3
```

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Query Match          2.9%; Score 13; DB 4; Length 211;
Best Local Similarity 100.0%; Pred. No. 0.00031;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 338 PPPTTTTTTTTT 350
Db 37 PPPTTTTTTTTT 49

RESULT 54
US-09-248-796A-17391
; Sequence 17391, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17391
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (212)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknc
US-09-248-796A-17391

Query Match          2.9%; Score 13; DB 4; Length 216;
Best Local Similarity 100.0%; Pred. No. 0.00032;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 353
Db 74 TTTTTTTTTTTT 86

RESULT 55
US-09-248-796A-24111
; Sequence 24111, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 24111
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-24111

Query Match          2.9%; Score 13; DB 4; Length 247;
Best Local Similarity 100.0%; Pred. No. 0.00036;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 353
Db 58 TTTTTTTTTTTT 70
```

```
RESULT 56
US-09-216-393B-341
; Sequence 341, Application US/09216393B
; Patent No. 6514694
; GENERAL INFORMATION:
; APPLICANT: Milhausen, Michael James
; TITLE OF INVENTION: TOXOPLASMA GONDII PROTEINS, NUCLEIC ACID MOLECULES, AND USES THERE
; FILE REFERENCE: TX-1-C2
; CURRENT APPLICATION NUMBER: US/09/216,393B
; CURRENT FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 08/994,825
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 366
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 341
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Toxoplasma gondii
US-09-216-393B-341

Query Match          2.9%; Score 13; DB 4; Length 288;
Best Local Similarity 100.0%; Pred. No. 0.00041;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 353
Db 164 TTTTTTTTTTTT 176

RESULT 57
US-09-216-393B-344
; Sequence 344, Application US/09216393B
; Patent No. 6514694
; GENERAL INFORMATION:
; APPLICANT: Milhausen, Michael James
; TITLE OF INVENTION: TOXOPLASMA GONDII PROTEINS, NUCLEIC ACID MOLECULES, AND USES THERE
; FILE REFERENCE: TX-1-C2
; CURRENT APPLICATION NUMBER: US/09/216,393B
; CURRENT FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 08/994,825
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 366
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 344
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Toxoplasma gondii
US-09-216-393B-344

Query Match          2.9%; Score 13; DB 4; Length 288;
Best Local Similarity 100.0%; Pred. No. 0.00041;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 353
Db 164 TTTTTTTTTTTT 176

RESULT 58
US-09-248-796A-25055
; Sequence 25055, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
```

```
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 25055
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (287),(288),(289)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-25055

Query Match      2.9%; Score 13; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.00042;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTITTTTTTTT 353
Db 95 TTTTITTTTTTTT 107

RESULT 59
US-09-778-510-4
; Sequence 4, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-778-510-4

Query Match      2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAGGQ 431
Db 375 DADTAIINAGGQ 387

RESULT 60
US-09-778-510-6
; Sequence 6, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapien
```

```
US-09-778-510-6

Query Match      2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAGGQ 431
Db 375 DADTAIINAGGQ 387

RESULT 61
US-09-907-794A-84
; Sequence 84, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
```


; PRIOR FILING DATE: 1999-12-16;
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 84
 ; LENGTH: 398
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-907-794A-84

Query Match 2.9%; Score 13; DB 4; Length 398;
 Best Local Similarity 100.0%; Pred. No. 0.00056;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAGGQ 431
 |||||
 Db 375 DADTAIINAGGQ 387

RESULT 62

US-09-905-125A-84
 ; Sequence 84, Application US/09905125A
 ; Patent No. 6664376
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnovers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT FILING DATE: 2001-07-12
 ; PRIOR APPLICATION NUMBER: US/09/905/125A
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 84
 ; LENGTH: 398
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-905-125A-84

Query Match 2.9%; Score 13; DB 4; Length 398;
 Best Local Similarity 100.0%; Pred. No. 0.00056;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAGGQ 431
 |||||
 Db 375 DADTAIINAGGQ 387

RESULT 63

US-09-902-775A-84
 ; Sequence 84, Application US/09902775A
 ; Patent No. 6686451
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnovers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT FILING DATE: 2001-07-10
 ; PRIOR APPLICATION NUMBER: US/09/902/775A
 ; PRIOR FILING DATE: 1999-07-10
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-775A-84

Query Match 2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 419 DADTAIINAEGGQ 431
| | | | | | | | | |
Db 375 DADTAIINAEGGQ 387

RESULT 64
US-09-906-700-84
; Sequence 84, Application US/09906700
; Patent No. 6723535
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-700-84

Query Match 2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 419 DADTAIINAEGGQ 431
| | | | | | | | | |
Db 375 DADTAIINAEGGQ 387

RESULT 65
US-09-903-603A-84
; Sequence 84, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang

```
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerriteen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: GNE.1618P2C12
; CURRENT APPLICATION NUMBER: US/09/903,603A
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-603A-84

Query Match      2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      419 DADTAIINAEGGQ 431
      |||||
Db      375 DADTAIINAEGGQ 387

RESULT 66
US-09-904-920A-84

; Sequence 84. Application US/09904920A
; Patent No. 6806352
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,920A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-920A-84
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Query Match          2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
Db 375 DADTAIINAEQQ 387

RESULT 67
US-09-909-064-84
; Sequence 84, Application US/09909064
; Patent No. 6818449
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,064
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-064-84

Query Match          2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
Db 375 DADTAIINAEQQ 387

RESULT 68
US-09-905-381A-84
; Sequence 84, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
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; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 84
 ; LENGTH: 398
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-905-381A-84

Query Match 2.9%; Score 13; DB 4; Length 398;
 Best Local Similarity 100.0%; Pred. No. 0.00056;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
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 Db 375 DADTAIINAEQQ 387

RESULT 69

US-09-906-618-84
 ; Sequence 84, Application US/09906618
 ; Patent No. 6828146
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnovers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kijavlin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; TITLE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/906.618
 ; CURRENT FILING DATE: 2001-07-16
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 84
 ; LENGTH: 398
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-906-618-84

Query Match 2.9%; Score 13; DB 4; Length 398;
 Best Local Similarity 100.0%; Pred. No. 0.00056;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
 |||||
 Db 375 DADTAIINAEQQ 387

RESULT 70

US-08-659-984A-1
 ; Sequence 1, Application US/08659984A
 ; Patent No. 5942400
 ; GENERAL INFORMATION:
 ; APPLICANT: Anderson, John P.
 ; APPLICANT: Sinha, Sukanto
 ; APPLICANT: Jacobson-Croak, Kirsten L.
 ; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
 ; TITLE OF INVENTION: Inhibition
 ; NUMBER OF SEQUENCES: 21
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Townsend and Townsend and Crew LLP
 ; STREET: Two Embarcadero Ctr., 8th Floor
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94111-3834
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/659,984A
 ; FILING DATE: 07-JUN-1996
 ; CLASSIFICATION: 436

```
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-659-984A-1

Query Match      2.9%; Score 13; DB 2; Length 421;
Best Local Similarity 100.0%; Pred. No. 0.00059;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      303 LNKTDNGTYRCEA 315
Db      272 LNKTDNGTYRCEA 284
|||||

RESULT 71
US-08-660-531-1
; Sequence 1, Application US/08660531
; Patent No. 6221645
; GENERAL INFORMATION:
; APPLICANT: Chrysler, Susanna M.S.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Keim, Pamela S.
; APPLICANT: Anderson, John P.
; TITLE OF INVENTION: Beta-Secretase
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,531
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/480,498
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002210US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-660-531-1

Query Match      2.9%; Score 13; DB 2; Length 421;
Best Local Similarity 100.0%; Pred. No. 0.00059;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      303 LNKTDNGTYRCEA 315
Db      272 LNKTDNGTYRCEA 284
|||||

RESULT 72
US-09-778-510-2
; Sequence 2, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 432
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-778-510-2

Query Match      2.9%; Score 13; DB 4; Length 432;
Best Local Similarity 100.0%; Pred. No. 0.0006;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      419 DADTAIINAEGGQ 431
Db      409 DADTAIINAEGGQ 421
|||||

RESULT 73
US-08-659-984A-5
; Sequence 5, Application US/08659984A
; Patent No. 5942400
; GENERAL INFORMATION:
; APPLICANT: Anderson, John P.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Jacobson-Croak, Kirsten L.
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; TITLE OF INVENTION: Inhibition
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/659,984A
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
```

REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002810US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 444 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-659-984A-5

Query Match 2.9%; Score 13; DB 2; Length 444;
Best Local Similarity 100.0%; Pred. No. 0.00062;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 303 LNKTDNGTYRCEA 315
Db 295 LNKTDNGTYRCEA 307
|||||

RESULT 74

US-08-660-531-5
Sequence 5, Application US/08660531
Patent No. 6221645
GENERAL INFORMATION:
APPLICANT: Chrysler, Susanna M.S.
APPLICANT: Sinha, Sukanto
APPLICANT: Keim, Pamela S.
APPLICANT: Anderson, John P.
TITLE OF INVENTION: Beta-Secretase
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/660,531
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/480,498
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002210US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 444 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-660-531-5

Query Match 2.9%; Score 13; DB 3; Length 444;
Best Local Similarity 100.0%; Pred. No. 0.00062;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 303 LNKTDNGTYRCEA 315
Db 295 LNKTDNGTYRCEA 307
|||||

RESULT 75

US-09-248-796A-22504
Sequence 22504, Application US/09248796A
Patent No. 6747137
GENERAL INFORMATION:
APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
FILE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 22504
LENGTH: 543
TYPE: PRT
ORGANISM: Candida albicans
US-09-248-796A-22504

Query Match 2.9%; Score 13; DB 4; Length 543;
Best Local Similarity 100.0%; Pred. No. 0.00075;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTTT 353
Db 372 TTTTNTTTTTTTTT 384
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Search completed: June 28, 2005, 10:22:30
Job time : 34.659 secs

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OM protein - protein search, using sw model

Run on: June 28, 2005, 10:07:28 ; Search time 25.4289 Seconds
(without alignments)
1600.529 Million cell updates/sec

Title: US-10-622-237-4
Perfect score: 423
Sequence: 1 APPGRLRLLLLLLSAAL.....TALINAEQQNNSEKKYF 423

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 283416 seqs, 96216763 residues

Word size : 0
Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database :
1: PIR 79:*
2: PIR1:*
3: PIR2:*
4: PIR3:*
5: PIR4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15	3.5	108	2 T26880	hypothetical prote
2	15	3.5	327	2 S20074	promastigote surfa
3	14	3.3	304	2 T15922	hypothetical prote
4	14	3.3	512	2 T02498	probable WRKY-type
5	14	3.3	516	2 S19252	1-aminocyclopropan
6	14	3.3	518	2 S31442	1-aminocyclopropan
7	14	3.3	889	2 A35679	rep protein - slim
8	14	3.3	1832	2 T31113	1-aminocyclopropan
9	13	3.1	67	2 B56888	alkaline phosphata
10	13	3.1	217	2 S01358	salivary glue prot
11	13	3.1	245	2 T26868	hypothetical prote
12	13	3.1	274	2 A45632	merozoite surface
13	13	3.1	278	2 S39310	merozoite surface
14	13	3.1	284	2 T22023	hypothetical prote
15	13	3.1	341	2 T32949	probable zinc meta
16	13	3.1	517	2 T20658	hypothetical prote
17	13	3.1	519	2 T23739	hypothetical prote
18	13	3.1	551	2 S18408	alkaline phosphata
19	13	3.1	560	2 T32661	hypothetical prote
20	13	3.1	651	2 T21175	hypothetical prote
21	13	3.1	781	2 S51592	XyNB precursor - R
22	13	3.1	831	2 T08611	hypothetical prote
23	13	3.1	975	2 T08606	protein phosphatas
24	13	3.1	1023	2 S12519	glutactin - fruit
25	13	3.1	1076	2 JC2217	major surface glyco
26	13	3.1	1083	2 JC2300	cell surface glyco
27	13	3.1	1099	2 T18257	phospholipase C -
28	13	3.1	1282	2 JE0120	glycoprotein A - m
29	13	3.1	1402	2 T17456	cell surface prote

30	13	3.1	1635	2 T14075	chitinase (EC 3.2.
31	13	3.1	1671	2 S71628	sensory transducti
32	13	3.1	1737	2 A59235	unconventional myo
33	13	3.1	1858	2 T18273	1-phosphatidylinos
34	12	2.8	183	2 S05358	hypothetical prote
35	12	2.8	342	2 T29557	hypothetical prote
36	12	2.8	458	2 T31631	hypothetical prote
37	12	2.8	477	2 A54843	nemo, form I - fru
38	12	2.8	524	2 S33640	homotetic protein s
39	12	2.8	530	2 T32812	hypothetical prote
40	12	2.8	559	2 B36307	alkaline phosphata
41	12	2.8	680	2 T19939	hypothetical prote
42	12	2.8	681	2 T23454	hypothetical prote
43	12	2.8	698	2 A54796	regulatory protein
44	12	2.8	802	2 A36910	xylanase, beta(1,3
45	12	2.8	825	2 T29634	hypothetical prote
46	12	2.8	1002	2 T30546	major surface glyco
47	12	2.8	3712	2 S18253	laminin alpha-1 ch
48	12	2.8	4377	2 A55575	ankyrin 3, long sp
49	11	2.6	139	2 D86417	probable auxin-ind
50	11	2.6	164	2 T28561	hypothetical prote
51	11	2.6	166	2 C90029	hypothetical prote
52	11	2.6	208	2 T46896	merozoite surface
53	11	2.6	234	2 T26560	hypothetical prote
54	11	2.6	263	2 S01360	salivary glue prot
55	11	2.6	373	2 T23596	hypothetical prote
56	11	2.6	385	2 JC7783	RAD 23B protein -
57	11	2.6	415	2 T32467	hypothetical prote
58	11	2.6	484	2 S58868	G protein-coupled
59	11	2.6	525	2 A35596	nuclear pore glyco
60	11	2.6	526	2 A56573	nuclear pore compl
61	11	2.6	558	2 A98199	translocated intim
62	11	2.6	558	2 E86045	probable transloca
63	11	2.6	569	2 S47277	gp88 protein - mur
64	11	2.6	649	2 T24505	hypothetical prote
65	11	2.6	662	2 A45155	mucin FIM-C.1 - Af
66	11	2.6	732	2 T25937	hypothetical prote
67	11	2.6	770	2 T22808	hypothetical prote
68	11	2.6	816	2 C69493	hypothetical prote
69	11	2.6	977	2 T12332	hypothetical prote
70	11	2.6	1093	2 T18275	1-phosphatidylinos
71	11	2.6	1271	2 D64237	hypothetical prote
72	11	2.6	1271	2 I38346	elastic titin - hu
73	10	2.4	127	2 T51538	nitrilase associat
74	10	2.4	232	2 A60095	larval glue protel
75	10	2.4	307	1 GSPF3	salivary glue prot
76	10	2.4	388	2 T16861	hypothetical prote
77	10	2.4	390	2 T49619	hypothetical prote
78	10	2.4	393	2 B86189	protein T25N20.9 l
79	10	2.4	395	2 T45599	hypothetical prote
80	10	2.4	435	2 T25350	hypothetical prote
81	10	2.4	468	2 A55476	protein kinase (EC
82	10	2.4	572	2 T16865	hypothetical prote
83	10	2.4	577	2 G89430	protein K02E2.3 l1
84	10	2.4	645	2 T29818	hypothetical prote
85	10	2.4	648	1 JQ1150	protein kinase (EC
86	10	2.4	712	1 I46031	gelatinase B (EC 3
87	10	2.4	947	2 T08605	hypothetical prote
88	10	2.4	1008	2 T30544	major surface glyco
89	10	2.4	1017	2 T30542	major surface glyco
90	10	2.4	1022	2 T30543	B-cell receptor pr
91	10	2.4	1030	2 T18374	masquerade precurs
92	10	2.4	1047	2 A55617	nosaA protein - sli
93	10	2.4	1089	2 T14576	trfA protein - sli
94	10	2.4	1390	2 T14004	hypothetical prote
95	10	2.4	1513	2 T23681	gene posterior sex
96	10	2.4	1603	2 S17983	hypothetical prote
97	9	2.1	124	2 T48833	hypothetical prote
98	9	2.1	167	2 T33602	hypothetical prote
99	9	2.1	187	2 T49491	hypothetical prote
100	9	2.1	195	2 T19617	hypothetical prote
101	9	2.1	202	2 F86755	prophage pi2 prote
102	9	2.1	213	2 T23865	hypothetical prote

103 2.1 327 2 T49514
104 2.1 371 2 S20075
105 2.1 372 2 T14193
106 2.1 384 2 A44146
107 2.1 394 2 T20633
108 2.1 422 2 T49513
109 2.1 492 2 A41907
110 2.1 500 1 EPFF
111 2.1 708 2 T29669
112 2.1 788 2 S05661
113 2.1 1014 2 T18759
114 2.1 1061 2 OFHUAR
115 2.1 1272 2 T30248
116 2.1 1335 2 T18289
117 2.1 1408 2 S16148
118 2.1 1510 2 T33100
119 2.1 1570 2 T18272
120 2.1 1733 1 B45344
121 2.1 3672 2 T23433
122 2.1 3704 2 T37316
123 8 1.9 29 2 I52628
124 8 1.9 61 1 DNVBPF
125 8 1.9 76 2 B96809
126 8 1.9 83 2 G84620
127 8 1.9 127 2 S03446
128 8 1.9 147 2 T01039
129 8 1.9 169 2 T32698
130 8 1.9 176 2 T26212
131 8 1.9 180 2 B45613
132 8 1.9 184 2 S12095
133 8 1.9 192 2 C70172
134 8 1.9 193 2 T24370
135 8 1.9 201 2 JC8038
136 8 1.9 210 2 T49785
137 8 1.9 213 2 T41130
138 8 1.9 224 2 G86148
139 8 1.9 228 2 AH0504
140 8 1.9 258 2 T33409
141 8 1.9 270 2 T41759
142 8 1.9 272 2 G71618
143 8 1.9 275 2 S09774
144 8 1.9 279 2 T26166
145 8 1.9 285 2 T20506
146 8 1.9 286 2 B45632
147 8 1.9 287 2 B39615
148 8 1.9 300 2 A39112
149 8 1.9 302 2 A39615
150 8 1.9 302 2 C86480

ALIGNMENTS

RESULT 1
T26880
hypothetical protein Y43F8C.9 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T26880
R;Ainscough, R.
submitted to the EMBL Data Library, October 1998
A;Reference number: Z20279
A;Accession: T26880
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-108 <WIL>
A;Cross-references: UNIPROT:Q9XWNO; EMBL:AL032637; PIDN:CAA21621.1; CBSP:Y43F8C.9
A;Experimental source: clone Y43F8C
C;Genetics:
A;Gene: CBSP:Y43F8C.9
A;Introns: 40/3
Query Match 3.5%; Score 15; DB 2; Length 108;

Best Local Similarity 100.0%; Pred. No. 2.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 321 PPTTTTTTTTTTTTTT 335
DB 48 PPTTTTTTTTTTTTTT 62
RESULT 2
S20074
promastigote surface antigen P2 (clone 4.6) precursor - Leishmania major (fragment)
C;Species: Leishmania major
C;Date: 13-Jan-1995 #sequence_revision 06-Feb-1998 #text_change 09-Jul-2004
C;Accession: S20074; D41710
R;Murray, P.J.; Spithill, T.W.
J. Biol. Chem. 266, 24477-24484, 1991
A;Title: Variants of a Leishmania surface antigen derived from a multigenic family.
A;Reference number: A41710; MUID:92105105; PMID:1761547
A;Accession: S20074
A;Molecule type: mRNA
A;Residues: 1-327 <MUR>
A;Cross-references: UNIPROT:Q25334; EMBL:X57135; NID:g9582; PID:g9583
C;Keywords: blocked carboxyl end; glycoprotein; lipoprotein; phosphatidylinositol linkage
F;1-299/Product: promastigote surface antigen P2 (fragment) #status predicted <PSA>
F;300-327/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F;299/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asp) (in mature form)
Query Match 3.5%; Score 15; DB 2; Length 327;
Best Local Similarity 100.0%; Pred. No. 6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 321 PPTTTTTTTTTTTTTT 335
DB 183 PPTTTTTTTTTTTTTT 197
RESULT 3
T15922
hypothetical protein BEED8.11 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C;Accession: T15922
R;Chissoe, S.
submitted to the EMBL Data Library, July 1995
A;Description: The sequence of C. elegans cosmid BEED8.
A;Reference number: Z18428
A;Accession: T15922
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-304 <CHI>
A;Cross-references: UNIPROT:O09300; EMBL:U23484; NID:g733597; PID:g733608; PIDN:AAC46771.
A;Experimental source: strain Bristol N2
C;Genetics:
A;Gene: CBSP:BEED8.11
A;Introns: 27/1; 242/2
Query Match 3.3%; Score 14; DB 2; Length 304;
Best Local Similarity 100.0%; Pred. No. 4.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 322 PTTTNTTTTTTTTTT 335
DB 67 PTTTNTTTTTTTTTT 80
RESULT 4
T02498
probable WRKY-type DNA binding protein At2g38470 [imported] - Arabidopsis thaliana
N;Alternate names: hypothetical protein T19C21.4
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 05-Mar-1999 #sequence_revision 05-Mar-1999 #text_change 09-Jul-2004
C;Accession: T02498; D84805
R;Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes, S.M.; Kaul,

submitted to the EMBL Data Library, August 1998
A;Description: Arabidopsis thaliana chromosome II BAC T19C21 genomic sequence.
A;Reference number: Z14676
A;Accession: T02498
A;Status: translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-512 <ROU>
A;Cross-references: UNIPROT:Q8S8P5; EMBL:AC004683; NID:g3395421; PID:g3395425
A;Experimental source: cultivar Columbia
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.;
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
A;Accession: DB4805
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-512 <STO>
A;Cross-references: GB:AE002093; NID:g6598471; PIDN:AAC67339.2; GSPDB:GN00139
C;Genetics:
A;Gene: At2g38470; T19C21.4
A;Map position: 2
A;Introns: 74/3; 143/3; 321/2; 375/2

Query Match 3.3%; Score 14; DB 2; Length 512;
Best Local Similarity 100.0%; Pred. No. 7.6e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTTTTTTTTTTT 335
Db 122 PTTTTTTTTTTTTT 135

RESULT 5
S19252
1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) - clove pink
C;Species: Dianthus caryophyllus (clove pink)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
C;Accession: S19252
R;Park, K.V.; Drory, A.; Woodson, W.R.
Plant Mol. Biol. 18, 377-386, 1992
A;Title: Molecular cloning of an 1-aminocyclopropane-1-carboxylate synthase from senesci
A;Reference number: S19252; MUID:92119258; PMID:1731995
A;Accession: S19252
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-516 <PAR>
A;Cross-references: UNIPROT:P27486; EMBL:M66619
C;Superfamily: 1-aminocyclopropane-1-carboxylate synthase
C;Keywords: carbon-sulfur lyase; ethylene biosynthesis; phosphoprotein; pyridoxal phosph
F;276/Binding site: pyridoxal phosphate (Lys) (covalent) #status predicted

Query Match 3.3%; Score 14; DB 2; Length 516;
Best Local Similarity 100.0%; Pred. No. 7.7e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTTTTTTTTTTT 336
Db 457 TTTTTTTTTTTTTT 470

RESULT 6
S31442
1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) - clove pink
C;Species: Dianthus caryophyllus (clove pink)
C;Date: 02-Dec-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: S31442
R;Michael, M.Z.
submitted to the EMBL Data Library, December 1992
A;Description: Isolation of petal senescence-associated cDNA clones encoding 1-aminocycl
A;Reference number: S31442
A;Accession: S31442

A;Molecule type: mRNA
A;Residues: 1-518 <MIC>
A;Cross-references: UNIPROT:Q43753; EMBL:Z18952; NID:g18319; PIDN:CAA79477.1; PID:g18320
C;Superfamily: 1-aminocyclopropane-1-carboxylate synthase
C;Keywords: carbon-sulfur lyase; ethylene biosynthesis; phosphoprotein; pyridoxal phosph
F;278/Binding site: pyridoxal phosphate (Lys) (covalent) #status predicted

Query Match 3.3%; Score 14; DB 2; Length 518;
Best Local Similarity 100.0%; Pred. No. 7.7e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTTTTTTTTTTT 336
Db 459 TTTTTTTTTTTTTT 472

RESULT 7
A35679
rep protein - slime mold (Dictyostelium discoideum) plasmid Ddp2
C;Species: Dictyostelium discoideum
C;Date: 28-Sep-1990 #sequence_revision 28-Sep-1990 #text_change 09-Jul-2004
C;Accession: A35679; S14202; S15811
R;Leiting, B.; Lindner, I.J.; Noegel, A.A.
Mol. Cell. Biol. 10, 3727-3736, 1990
A;Title: The extrachromosomal replication of Dictyostelium plasmid Ddp2 requires a cis-a
A;Reference number: A35679; MUID:90287164; PMID:2192261
A;Accession: A35679
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-889 <LEI>
A;Cross-references: UNIPROT:Q23895; GB:M55298; NID:g167727; PIDN:AAA33191.1; PID:g167728
R;Slade, M.B.; Chang, A.C.M.; Williams, K.L.
Plasmid 24, 195-207, 1990
A;Title: The sequence and organization of Ddp2, a high-copy-number nuclear plasmid of D
A;Reference number: S14202; MUID:91172902; PMID:2077544
A;Accession: S14202
A;Molecule type: DNA
A;Residues: 1-141, 'I', 143-780, 'E', 782-885, 'GY' <SLA1>
A;Cross-references: EMBL:X51478
R;Slade, M.B.
submitted to the EMBL Data Library, January 1990
A;Reference number: S15811
A;Accession: S15811
A;Molecule type: DNA
A;Residues: 1-141, 'I', 143-353, 'A', 355-780, 'E', 782-885, 'GY' <SLA2>
A;Cross-references: EMBL:X51478; NID:g7307; PIDN:CAA35843.1; PID:g7308
C;Genetics:
A;Gene: rep
A;Genome: plasmid

Query Match 3.3%; Score 14; DB 2; Length 889;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTTTTTTTTTTT 335
Db 250 PTTTTTTTTTTTTT 263

RESULT 8
T31113
mucin-like glycoprotein 900 - Cryptosporidium parvum
C;Species: Cryptosporidium parvum
C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 09-Jul-2004
C;Accession: T31113
R;Barnes, D.A.; Bonnin, A.; Huang, J.X.; Gousset, L.; Wu, J.; Gut, J.; Doyle, P.; Dubrem
Mol. Biochem. Parasitol. 96, 93-110, 1998
A;Title: A novel multi-domain mucin-like glycoprotein of Cryptosporidium parvum mediate
A;Reference number: Z20989; MUID:99066935; PMID:9851610
A;Accession: T31113
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1832 <BAR>

A;Cross-references: UNIPROT:O96503; EMBL:AF068065; NID:G4063041; PID:G4063042; PIDN:AAC9

Query Match 3.1%; Score 14; DB 2; Length 1832;
Best Local Similarity 100.0%; Pred. No. 0.00022; Mismatches 0; Indels 0; Gaps 0;
Matches 14; Conservative 0

QY 322 PTTTTTTTTTTT 335
| | | | | | | | | | | | | | | | | |
Db 373 PTTTTTTTTTTT 386

RESULT 9
B56888
alkaline phosphatase (EC 3.1.3.1), intestinal type II - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 05-Jan-1996 #sequence_revision 05-Jan-1996 #text_change 16-Aug-2004
C;Accession: B56888
R;Engle, M.J.; Alpers, D.H.
Clin. Chem. 38, 2506-2509, 1992
A;Title: The two mRNAs encoding rat intestinal alkaline phosphatase represent two distinct
A;Reference number: A56888; MUID:93092310; PMID:1458592
A;Accession: B56888
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-67 <ENG>
A;Experimental source: duodenal mucosa
A;Note: sequence extracted from NCBI backbone (NCBIN:121249, NCBIP:121252)
C;Superfamily: Alkaline phosphatase
C;Keywords: intestine; membrane protein; phosphoric monoester hydrolase

Query Match 3.1%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00012; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0

QY 323 TTTTTTTTTTTT 335
| | | | | | | | | | | | | | | | | |
Db 27 TTTTTTTTTTTT 39

RESULT 10
S01358
salivary glue protein sgs-3 precursor - fruit fly (Drosophila simulans)
C;Species: Drosophila simulans
C;Date: 30-Sep-1989 #sequence_revision 30-Sep-1989 #text_change 09-Jul-2004
C;Accession: S01358; A25988
R;Martin, C.H.; Mayeda, C.A.; Meyerowitz, E.M.
J. Mol. Biol. 201, 273-287, 1988
A;Title: Evolution and expression of the sgs-3 glue gene of Drosophila.
A;Reference number: S01358; MUID:88332966; PMID:3138416
A;Accession: S01358
A;Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-217 <MAR>
A;Cross-references: UNIPROT:P13729
C;Genetics:
A;Gene: Sgs-3
A;Cross-references: FlyBase:FBgn0012853
C;Superfamily: salivary glue protein
F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-217/Product: salivary glue protein sgs-3 #status predicted <MAT>

Query Match 3.1%; Score 13; DB 2; Length 217;
Best Local Similarity 100.0%; Pred. No. 0.00032; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0

QY 323 TTTTTTTTTTTT 335
| | | | | | | | | | | | | | | | | |
Db 49 TTTTTTTTTTTT 61

RESULT 11
T26868
hypothetical protein Y43F8C.5 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T26868
R;Ainscough, R.
submitted to the EMBL Data Library, October 1998
A;Reference number: Z20279
A;Accession: T26868
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-245 <WIL>
A;Cross-references: UNIPROT:Q9XWP2; EMBL:AL032637; PIDN:CAA21609.1; CESP:Y43F8C.5
A;Experimental source: clone Y43F8C
C;Genetics:
A;Gene: CESP:Y43F8C.5
A;Introns: 69/3; 163/2

Query Match 3.1%; Score 13; DB 2; Length 245;
Best Local Similarity 100.0%; Pred. No. 0.00035; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0

QY 321 PTTTTTTTTTTT 333
| | | | | | | | | | | | | | | | | |
Db 197 PTTTTTTTTTTT 209

RESULT 12
A45632
merozoite surface antigen 2 - malaria parasite (Plasmodium falciparum)
C;Species: Plasmodium falciparum
C;Date: 22-Apr-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A45632
R;Marshall, V.M.; Coppel, R.L.; Anders, R.F.; Kemp, D.J.
Mol. Biochem. Parasitol. 50, 181-184, 1992
A;Title: Two novel alleles within subfamilies of the merozoite surface antigen 2 (MSA-2)
A;Reference number: A45632; MUID:92178286; PMID:1542312
A;Contents: KF1916
A;Accession: A45632
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-274 <MAR>
A;Cross-references: UNIPROT:P50497; GB:M73810; NID:G160484; PID:G160485
A;Note: sequence extracted from NCBI backbone (NCBIN:85252, NCBIP:85257)
C;Superfamily: Epstein-Barr virus nuclear antigen
C;Keywords: surface antigen

Query Match 3.1%; Score 13; DB 2; Length 274;
Best Local Similarity 100.0%; Pred. No. 0.00039; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0

QY 323 TTTTTTTTTTTT 335
| | | | | | | | | | | | | | | | | |
Db 97 TTTTTTTTTTTT 109

RESULT 13
S39310
merozoite surface antigen - malaria parasite (Plasmodium falciparum)
C;Species: Plasmodium falciparum
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: S39310
R;Ramasamy, R.; Ranasinghe, C.
submitted to the EMBL Data Library, November 1993
A;Description: Cycle ds DNA sequencing of a malaria parasite protein from infected blood
A;Reference number: S39310
A;Accession: S39310
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-278 <RAM>
A;Cross-references: UNIPROT:Q25862; EMBL:X76087; NID:G434996; PID:G836639
C;Superfamily: Epstein-Barr virus nuclear antigen
C;Keywords: surface antigen

Query Match 3.1%; Score 13; DB 2; Length 278;

Best Local Similarity 100.0%; Pred. No. 0.00039;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
|||||
Db 101 TTTTNTTTTTTTTT 113

RESULT 14

T22023

hypothetical protein F40E10.5 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T22023

R;Smye, R.

submitted to the EMBL Data Library, February 1996

A;Reference number: Z19503

A;Accession: T22023

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-284 <WIL>

A;Cross-references: UNIPROT:Q20202; EMBL:Z69792; PIDN:CAA93666.1; GSPDB:GN00028; CESP:F4

A;Experimental source: clone F40E10

C;Genetics:

A;Gene: CESP:F40E10.5

A;Map position: X

A;Introns: 34/3; 76/2; 141/3; 183/3; 240/3

Query Match 3.1%; Score 13; DB 2; Length 284;

Best Local Similarity 100.0%; Pred. No. 0.0004;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
|||||
Db 214 TTTTNTTTTTTTTT 226

RESULT 15

T32949

hypothetical protein C05G6.3 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999

C;Accession: T32949

R;Kemp, K.

submitted to the EMBL Data Library, February 1998

A;Description: The sequence of C. elegans cosmid C05G6.

A;Reference number: Z21252

A;Accession: T32949

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-341 <KEM>

A;Cross-references: EMBL:AF045635; PIDN:AAC02556.1; GSPDB:GN00022; CESP:C05G6.3

A;Experimental source: strain Bristol N2; clone C05G6

C;Genetics:

A;Gene: CESP:C05G6.3

A;Map position: 4

A;Introns: 52/2; 110/1; 151/3; 195/1; 254/3; 295/3

Query Match 3.1%; Score 13; DB 2; Length 341;

Best Local Similarity 100.0%; Pred. No. 0.00047;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
|||||
Db 91 TTTTNTTTTTTTTT 103

RESULT 16

T20658

probable zinc metalloproteinase F09E8.6 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T20658

R;Percy, C.

submitted to the EMBL Data Library, May 1996

A;Reference number: Z19307

A;Accession: T20658

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-517 <WIL>

A;Cross-references: UNIPROT:Q19269; EMBL:Z73896; PIDN:CAA98057.1; GSPDB:GN00022; CESP:F0

A;Experimental source: clone F09E8

C;Genetics:

A;Gene: CESP:F09E8.6

A;Map position: 4

A;Introns: 40/1; 110/3; 141/2; 219/3; 393/1

C;Superfamily: probable zinc metalloproteinase T04G9.2

Query Match 3.1%; Score 13; DB 2; Length 517;

Best Local Similarity 100.0%; Pred. No. 0.00066;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
|||||
Db 334 TTTTNTTTTTTTTT 346

RESULT 17

T23739

hypothetical protein M106.2 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T23739

R;Palmer, S.

submitted to the EMBL Data Library, December 1994

A;Reference number: Z19792

A;Accession: T23739

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-519 <WIL>

A;Cross-references: UNIPROT:Q09592; EMBL:Z46935; PIDN:CAA87049.1; GSPDB:GN00020; CESP:M1

A;Experimental source: clone M106

C;Genetics:

A;Gene: CESP:M106.2

A;Map position: 2

A;Introns: 47/2; 110/3; 185/2; 231/2; 270/2; 321/2; 347/3; 411/3; 452/3

C;Superfamily: Caenorhabditis elegans hypothetical protein M106.2

Query Match 3.1%; Score 13; DB 2; Length 519;

Best Local Similarity 100.0%; Pred. No. 0.00066;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
|||||
Db 502 TTTTNTTTTTTTTT 514

RESULT 18

S18408

alkaline phosphatase (EC 3.1.3.1) - rat

N;Alternate names: phytase

C;Species: Rattus norvegicus (Norway rat)

C;Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004

C;Accession: S18408; S17576

R;Strom, M.; Krisinger, J.; Deluca, H.F.

Biochim. Biophys. Acta 1090, 299-304, 1991

A;Title: Isolation of a mRNA that encodes a putative intestinal alkaline phosphatase reg

A;Reference number: S18408; MUID:92062729; PMID:1954251

A;Accession: S18408

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-551 <STR>

A;Cross-references: UNIPROT:P51740

A;Note: the correct sequence of residues 144-160 is shown in Fig. 2; the corresponding c

R;Yang, W.J.; Matsuda, Y.; Sano, S.; Masutani, H.; Nakagawa, H.

Biochim. Biophys. Acta 1075, 75-82, 1991

A;Title: Purification and characterization of phytase from rat intestinal mucosa.
A;Reference number: S17576; MUID:91370007; PMID:1654110
A;Accession: S17576
A;Molecule type: protein
A;Residues: 20-29 <YAN>
A;Note: 10-val was also found
C;Superfamily: alkaline phosphatase
C;Keywords: phosphoric monoester hydrolase

Query Match 3.1%; Score 13; DB 2; Length 551;
Best Local Similarity 100.0%; Pred. No. 0.0007;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 511 TTTTNTTTTTTTT 523

RESULT 19

T32661
hypothetical protein K11D12.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999
C;Accession: T32661
R;Henkhaus, J.; Wohldmann, P.; Gillam, B.
submitted to the EMBL Data Library, December 1997
A;Description: The sequence of C. elegans cosmid K11D12.
A;Reference number: Z21207
A;Accession: T32661
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Residues: 1-560 <HEN>
A;Molecule type: DNA
A;Cross-references: EMBL:AF039047; PIDN:AAB94223.1; GSPDB:GN000023; CESP:K11D12.1
A;Experimental source: strain Bristol N2; clone K11D12
C;Genetics:

A;Gene: CESP:K11D12.1
A;Map position: 5
A;Introns: 5/3; 48/3; 90/3; 127/3; 149/3; 190/1; 207/1; 233/3; 264/1; 480/1

Query Match 3.1%; Score 13; DB 2; Length 560;
Best Local Similarity 100.0%; Pred. No. 0.00071;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 345 TTTTNTTTTTTTT 357

RESULT 20

T21175
hypothetical protein F55D12.5 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T21175; T22735
R;McMurray, A.
submitted to the EMBL Data Library, June 1996

A;Reference number: Z19385
A;Accession: T21175
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-651 <WIL>
A;Cross-references: UNIPROT:Q19659; EMBL:Z75538; PIDN:CAA99842.1; GSPDB:GN000019; CESP:F55D12.5
A;Experimental source: clone F20G4
R;McMurray, A.
submitted to the EMBL Data Library, June 1996
A;Reference number: Z19606
A;Accession: T22735
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-651 <WIL2>
A;Cross-references: EMBL:Z75542; PIDN:CAA99864.1; GSPDB:GN000019; CESP:F55D12.5
A;Experimental source: clone F55D12
C;Genetics:

A;Gene: CESP:F55D12.5
A;Map position: 1
A;Introns: 29/2; 54/3; 93/3; 180/2; 236/1; 264/2; 471/3; 486/3; 583/3

Query Match 3.1%; Score 13; DB 2; Length 651;
Best Local Similarity 100.0%; Pred. No. 0.0008;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 513 TTTTNTTTTTTTT 525

RESULT 21

S51592
XynB precursor - Ruminococcus flavefaciens
C;Species: Ruminococcus flavefaciens
C;Date: 15-Jul-1995 #sequence_revision 01-Sep-1995 #text_change 09-Jul-2004
C;Accession: S51592
R;Zhang, J.X.; Martin, J.; Flint, H.J.
Mol. Gen. Genet. 245, 260-264, 1994
A;Title: Identification of non-catalytic conserved regions in xylanases encoded by the xyl
A;Reference number: S51592; MUID:95115675; PMID:7816035
A;Accession: S51592
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-781 <ZHA>
A;Cross-references: UNIPROT:Q52753; EMBL:Z35226; NID:g516273; PIDN:CAA84537.1; PID:g5162;
F;42-239/Domain: endo-1,4-beta-xylanase homology <XYL>
F;258-401/Domain: Thermotoga xylanase A amino-terminal repeat homology <TXA>

Query Match 3.1%; Score 13; DB 2; Length 781;
Best Local Similarity 100.0%; Pred. No. 0.00094;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 672 TTTTNTTTTTTTT 684

RESULT 22

T08611
hypothetical protein DocA - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C;Accession: T08611
R;Aubry, L.; Firtel, R.A.; Iranfar, N.
submitted to the EMBL Data Library, August 1997

A;Reference number: Z16456
A;Accession: T08611
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-831 <AUB>
A;Cross-references: UNIPROT:O15756; EMBL:AF020409; NID:g2425146; PID:g2425147
A;Experimental source: strain AX4
C;Genetics:
A;Gene: docA

Query Match 3.1%; Score 13; DB 2; Length 831;
Best Local Similarity 100.0%; Pred. No. 0.00099;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 7 TTTTNTTTTTTTT 19

RESULT 23

T08606
protein phosphatase 2C-like protein Spalten - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C;Accession: T08606

R:Aubry, L.; Firtel, R.A.
submitted to the EMBL Data Library, August 1997
A:Reference number: Z16454
A:Accession: T08606
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-975 <AUB>
A:Cross-references: UNIPROT:O15743; EMBL:AF019985; NID:g2425120; PID:g2425121
A:Experimental source: strain AX3
C:Genetics:
A:Gene: spnA

Query Match 3.1%; Score 13; DB 2; Length 975;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 TTTTNTTTTTTTT 334
|||||
Db 560 TTTTNTTTTTTTT 572

RESULT 24
S12519
glutactin - fruit fly (*Drosophila melanogaster*)
C:Species: *Drosophila melanogaster*
C>Date: 19-Mar-1997 #sequence_revision 25-Apr-1997 #text_change 09-Jul-2004
C:Accession: S12519
R:Olson, P.F.; Fessler, L.I.; Nelson, R.E.; Campbell, A.G.; Fessler, J.H.
EMBO J. 9, 1219-1227, 1990
A:Title: Glutactin, a novel *Drosophila* basement membrane-related glycoprotein with sequence homology to the human laminin alpha 5 chain
A:Reference number: S12519; MUID:90214632; PMID:2108864
A:Accession: S12519
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-1023 <OLS>
A:Cross-references: UNIPROT:P33438; EMBL:X53286; NID:g297084; PIDN:CAA37380.1; PID:g297084
C:Genetics:
A:Introns: 390/3

Query Match 3.1%; Score 13; DB 2; Length 1023;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
|||||
Db 603 TTTTNTTTTTTTT 615

RESULT 25
JC2217
major surface glycoprotein 5 - *Pneumocystis carinii*
C:Species: *Pneumocystis carinii*
C>Date: 28-Aug-1995 #sequence_revision 07-Oct-1994 #text_change 09-Jul-2004
C:Accession: JC2217
R:Kitada, K.; Wada, M.; Nakamura, Y.
DNA Res. 1, 57-66, 1994
A:Title: Multi-gene family of major surface glycoproteins of *Pneumocystis carinii*: full-length cDNA clones and their expression in *Escherichia coli*
A:Reference number: JC2217; MUID:96051981; PMID:7594029
A:Accession: JC2217
A:Molecule type: mRNA
A:Residues: 1-1076 <KIT>
A:Cross-references: UNIPROT:Q01830; DBJ:D21827; NID:g425784; PIDN:BAA04851.1; PID:d1005
C:Superfamily: *Pneumocystis carinii* major surface glycoprotein MSG100
C:Keywords: glycoprotein
P:245,471,574,804,837/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 3.1%; Score 13; DB 2; Length 1076;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
|||||
Db 951 TTTTNTTTTTTTT 963

RESULT 26

JC2300
cell surface glycoprotein MSG100 - *Pneumocystis carinii*
C:Species: *Pneumocystis carinii*
C>Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C:Accession: JC2300
R:Wada, M.; Nakamura, Y.
DNA Res. 1, 163-168, 1994
A:Title: MSG gene cluster encoding major cell surface glycoproteins of rat *Pneumocystis carinii*
A:Reference number: JC2299; MUID:96051989; PMID:8535973
A:Accession: JC2300
A:Molecule type: DNA
A:Residues: 1-1083 <WAD>
A:Cross-references: UNIPROT:Q12075; GB:D11909; GB:D17441; NID:g559718; PIDN:BAA06705.1; PID:g559718
C:Genetics:
A:Gene: MSG100
C:Superfamily: *Pneumocystis carinii* major surface glycoprotein MSG100
C:Keywords: glycoprotein

Query Match 3.1%; Score 13; DB 2; Length 1083;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
|||||
Db 959 TTTTNTTTTTTTT 971

RESULT 27

T18257
phospholipase C - yeast (*Candida albicans*)
C:Species: *Candida albicans*
C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C:Accession: T18257
R:Bennett, D.E.; McCreary, C.E.; Coleman, D.C.
Microbiology 144, 53-72, 1998
A:Title: Genetic characterization of a phospholipase C gene from *Candida albicans*: presence of a conserved catalytic domain
A:Reference number: Z18844; MUID:98129081; PMID:9467900
A:Accession: T18257
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-1099 <BEN>
A:Cross-references: UNIPROT:O13433; EMBL:Y13975; NID:g2462981; PIDN:CAA74308.1; PID:g2462981
C:Genetics:
A:Gene: PLC1
P:566-726/Domain: 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase domain X homologue

Query Match 3.1%; Score 13; DB 2; Length 1099;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
|||||
Db 746 TTTTNTTTTTTTT 758

RESULT 28

JE0120
glycoprotein A - mouse
C:Species: *Mus musculus* (house mouse)
C>Date: 02-Jun-1998 #sequence_revision 10-Jul-1998 #text_change 15-Jun-2001
C:Accession: JE0120
R:Haideris, C.G.; Medzhiradsky, O.F.; Gigliotti, F.; Simpson-Haidaris, P.J.
DNA Res. 5, 77-85, 1998
A:Title: Molecular characterization of mouse *Pneumocystis carinii* surface glycoprotein A
A:Reference number: JE0120; MUID:98344138; PMID:9679195
A:Accession: JE0120
A:Molecule type: mRNA
A:Residues: 1-1282 <HAI>
A:Cross-references: GB:AF143102
C:Comment: This protein is a surface antigen of pneumonia.

C;Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C;Keywords: Glycoprotein
F;248,612,717,779,1063/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 3.1%; Score 13; DB 2; Length 1282;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
| | | | | | | | | | | | | | | | | | | | | |
Db 1158 TTTTNTTTTTTT 1170

RESULT 29
T17456
cell surface protein DTFA - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 09-Jun-2000 #sequence_revision 09-Jun-2000 #text_change 09-Jul-2004
C;Accession: T17456
R;Ginger, R.S.; Drury, L.; Baader, C.; Zhukovskaya, N.V.; Williams, J.G.
Development 125, 3343-3352, 1998
A;Title: A novel Dictyostelium cell surface protein important for both cell adhesion and
A;Reference number: 218798; MUID:98359946; PMID:9693138
A;Accession: T17456
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1402 <GIN>
A;Cross-references: UNIPROT:O96668; EMBL:AF102575; NID:g4063398; PID:g4063399; PIDN:AACS
A;Experimental source: strain AX2
C;Genetics:
A;Gene: dtfA
C;Function:
A;Description: involved in the cell adhesion and cell sorting

Query Match 3.1%; Score 13; DB 2; Length 1402;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
| | | | | | | | | | | | | | | | | | | | | |
Db 74 TTTTNTTTTTTT 86

RESULT 30
T14075
chitinase (EC 3.2.1.14) - yellow fever mosquito
C;Species: Aedes aegypti (yellow fever mosquito)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C;Accession: T14075
R;de la Vega, H.; Specht, C.A.; Liu, Y.; Robbins, P.W.
Insect Mol. Biol. 7, 233-239, 1997
A;Title: Chitinases are a multi-gene family in Aedes, Anopheles, and Drosophila.
A;Reference number: 217872
A;Accession: T14075
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1635
A;Cross-references: UNIPROT:O17412; EMBL:AF026492; NID:g2564720; PID:g2564721; PIDN:AA88
C;Genetics:
A;Gene: CHT2
A;Introns: 462/3; 524/3; 618/1; 951/3; 1151/2
C;Keywords: glycosidase; hydrolase; polysaccharide degradation

Query Match 3.1%; Score 13; DB 2; Length 1635;
Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
| | | | | | | | | | | | | | | | | | | | | |
Db 217 TTTTNTTTTTTT 229

RESULT 31
1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 2 - slime mold (Dictyostelium discoideum)

S71628
sensory transduction histidine kinase doka - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 27-Nov-1997 #sequence_revision 12-Dec-1997 #text_change 09-Jul-2004
C;Accession: S71628; S78068
R;Schuster, S.C.; Noegel, A.A.; Oehme, F.; Gerisch, G.; Simon, M.I.
EMBO J. 15, 3880-3889, 1996
A;Title: The hybrid histidine kinase Doka is part of the osmotic response system of Dicty
A;Reference number: S71628; MUID:96324396; PMID:8670893
A;Accession: S71628
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-1670 <SCH>
A;Cross-references: UNIPROT:Q23901; EMBL:X96869
A;Experimental source: strain AX2; substrain 214
R;Schuster, S.C.; Noegel, A.A.; Oehme, F.; Gerisch, G.; Simon, M.I.
submitted to the EMBL Data Library, March 1996
A;Description: The hybrid histidine kinase Doka is part of the osmotic response system of
A;Reference number: S78068
A;Accession: S78068
A;Molecule type: DNA
A;Residues: 1-149, 'E', 151-219, 'TRVLKLIQSTNNWIYV', 238-1671 <SCW>
A;Cross-references: EMBL:X96869; NID:gl237201; PIDN:CAA65612.1; PID:gl237202
C;Genetics:
A;Gene: doka
C;Function:
A;Description: modulates cell response to changes in osmolarity; involved in spore format
C;Keywords: phosphoprotein; signal transduction
F;1520-1629/Domain: response regulator homology <RRH>
F;1568/Binding site: phosphate (Asp) (covalent) #status predicted

Query Match 3.1%; Score 13; DB 2; Length 1671;
Best Local Similarity 100.0%; Pred. No. 0.0018;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
| | | | | | | | | | | | | | | | | | | | | |
Db 399 TTTTNTTTTTTTT 411

RESULT 32
A59235
unconventional myosin heavy chain MyoM - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 19-May-2000 #sequence_revision 19-May-2000 #text_change 09-Jul-2004
C;Accession: A59235
R;Geissler, H.; Schwarz, E.C.; Soldati, T.
submitted to Genbank, September 1998
A;Description: Identification of two novel and highly divergent myosins in Dictyostelium
A;Reference number: A59235
A;Accession: A59235
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-1737 <GEI>
A;Cross-references: UNIPROT:Q9TW28; GB:AF090533; NID:g5714395; PIDN:AAD47903.1; PID:g5714
A;Experimental source: strain AX2
C;Genetics:
A;Gene: myoM
A;Map position: 6, aldB-cabA2
F;62-874/Domain: myosin motor domain homology #status atypical <MMO>

Query Match 3.1%; Score 13; DB 2; Length 1737;
Best Local Similarity 100.0%; Pred. No. 0.0018;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
| | | | | | | | | | | | | | | | | | | | | |
Db 1053 TTTTNTTTTTTTT 1065

RESULT 33
T18273
1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 2 - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T18273
R;Zhou, K.; Takegawa, K.; Emr, S.D.; Firtel, R.A.
Mol. Cell. Biol. 15, 5645-5656, 1995
A;Title: A phosphatidylinositol (PI) kinase gene family in Dictyostelium discoideum: Bic
A;Reference number: Z06411
A;Accession: T18273
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-1858 <ZHO>
A;Cross-references: UNIPROT:P54674; EMBL:U23477; NID:G733521; PID:G733522; PIDN:AAA85722
C;Genetics:
A;Gene: PIK2
C;Keywords: phosphotransferase

Query Match 3.1%; Score 13; DB 2; Length 1858;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
|||||
DB 715 TTTT TTTT TTTT TTTT 727

RESULT 34
S05358
hypothetical protein (clone AAC1) - slime mold (Dictyostelium discoideum) (fragment)
C;Species: Dictyostelium discoideum
C;Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 09-Jul-2004
C;Accession: S05358
R;Shaw, D.R.; Richter, H.; Giorda, R.; Omachi, T.; Ennis, H.L.
Mol. Gen. Genet. 218, 453-459, 1989
A;Title: Nucleotide sequences of Dictyostelium discoideum developmentally regulated cDNA
A;Reference number: S05355; MUID:90066348; PMID:2511421
A;Accession: S05358
A;Molecule type: mRNA
A;Residues: 1-183 <SHA>
A;Cross-references: UNIPROT:P14195; EMBL:X16525; NID:G7172; PIDN:CAA34532.1; PID:G930011

Query Match 2.8%; Score 12; DB 2; Length 183;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 334
|||||
DB 34 TTTT TTTT TTTT TTTT 45

RESULT 35
T29557
hypothetical protein C16D9.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T29557
R;Gattung, S.; Le, T.T.
submitted to the EMBL Data Library, July 1996
A;Description: The sequence of C. elegans cosmid C16D9.
A;Reference number: Z20640
A;Accession: T29557
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-342 <GAT>
A;Cross-references: UNIPROT:Q22902; EMBL:U64858; PIDN:AAB18288.1; GSPDB:GNO00023; CESP:C1
A;Experimental source: strain Bristol N2; clone C16D9
C;Genetics:
A;Gene: CESP:C16D9.1
A;Map position: 5
A;Introns: 59/2; 316/3

Query Match 2.8%; Score 12; DB 2; Length 342;
Best Local Similarity 100.0%; Pred. No. 0.004;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTT TTTT TTTT TTTT 333
|||||
DB 275 PTTT TTTT TTTT TTTT 286

RESULT 36

T31631
hypothetical protein Y57A10A.i - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C;Accession: T31631
R;Smey, R.
submitted to the EMBL Data Library, September 1999
A;Reference number: Z21048
A;Accession: T31631
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-458 <WIL>
A;Cross-references: UNIPROT:Q9NA83; EMBL:AL117195; NID:e1549729; PIDN:CAB55014.1; CESP:Y5
A;Experimental source: clone Y57A10A
C;Genetics:
A;Gene: CESP:Y57A10A.i
A;Introns: 8/3; 54/3; 112/3; 151/1

Query Match 2.8%; Score 12; DB 2; Length 458;
Best Local Similarity 100.0%; Pred. No. 0.0052;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 334
|||||
DB 134 TTTT TTTT TTTT TTTT 145

RESULT 37

A54843
nemo, form I - fruit fly (Drosophila melanogaster)
C;Species: Drosophila melanogaster
C;Date: 03-Oct-1995 #sequence_revision 03-Oct-1995 #text_change 09-Jul-2004
C;Accession: A54843
R;Choi, K.W.; Benzer, S.
Cell 78, 125-136, 1994
A;Title: Rotation of photoreceptor clusters in the developing Drosophila eye requires the
A;Reference number: A54843; MUID:94306509; PMID:8033204
A;Accession: A54843
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-477 <CHO>
A;Cross-references: UNIPROT:Q23993; GB:U12009; NID:G515669; PIDN:AAA21124.1; PID:G532558
C;Genetics:

Query Match 2.8%; Score 12; DB 2; Length 477;
Best Local Similarity 100.0%; Pred. No. 0.0053;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 334
|||||
DB 421 TTTT TTTT TTTT TTTT 432

RESULT 38

S33640
homeotic protein smox-2, engrailed-like - fluke (Schistosoma mansoni)
C;Species: Schistosoma mansoni
C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 16-Aug-2004
C;Accession: S33640; S27841
R;Webster, P.J.; Mansour, T.E.

Mech. Dev. 38, 25-32, 1992
A;Title: Conserved classes of homeodomains in Schistosoma mansoni, an early bilateral metazoan
A;Reference number: S33640; MUID:92399260; PMID:1356008
A;Accession: S33640
A;Molecule type: mRNA
A;Residues: 1-524 <WEB>
A;Cross-references: UNIPROT:Q26601; EMBL:S44191; EMBL:M85305; NID:g161103; PIDN:AAA29929
C;Genetics:
A;Gene: smox-2
C;Superfamily: homeobox homology
C;Keywords: DNA binding; homeobox; nucleus; transcription regulation
F;424-480/Domain: homeobox homology <HOX>

Query Match 2.8%; Score 12; DB 2; Length 524;
Best Local Similarity 100.0%; Pred. No. 0.0058;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 334
|||||
Db 104 TTTTNTTTTTTTT 115
|||||

RESULT 39
T32812
hypothetical protein H17B01.2 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C;Accession: T32812
R;Gattung, S.; Maggi, L.
submitted to the EMBL Data Library, December 1997
A;Description: The sequence of C. elegans cosmid H17B01.
A;Reference number: Z21227
A;Accession: T32812
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-530 <GAT>
A;Cross-references: UNIPROT:O61209; EMBL:AF040646; PIDN:AAB94986.1; GSPDB:GN000020; CESP:
C;Genetics:
A;Gene: CESP:H17B01.2
A;Map position: 2
A;Introns: 42/3; 58/1; 173/3; 268/2; 308/2; 340/1; 364/2; 387/3

Query Match 2.8%; Score 12; DB 2; Length 530;
Best Local Similarity 100.0%; Pred. No. 0.0058;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 334
|||||
Db 292 TTTTNTTTTTTTT 303
|||||

RESULT 40
B36307
alkaline phosphatase (EC 3.1.3.1), intestinal - mouse
C;Species: Mus musculus (house mouse)
C;Date: 28-Mar-1991 #sequence_revision 28-Mar-1991 #text_change 16-Aug-2004
C;Accession: B36307
R;Manes, T.; Glade, K.; Ziomek, C.A.; Millan, J.L.
Genomics 8, 541-554, 1990
A;Title: Genomic structure and comparison of mouse tissue-specific alkaline phosphatase
A;Reference number: A36307; MUID:91139124; PMID:2286375
A;Accession: B36307
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-559 <MAN>
A;Cross-references: UNIPROT:P24822; GB:M61705; NID:g194048; PIDN:AAA37873.1; PID:g194049
C;Superfamily: Alkaline phosphatase
C;Keywords: intestine; phosphoprotein; phosphoric monoester hydrolase

Query Match 2.8%; Score 12; DB 2; Length 559;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 334
|||||
Db 513 TTTTNTTTTTTTT 524
|||||

RESULT 41
T19939

hypothetical protein C44H4.3 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T19939

R;Smeye, R.

submitted to the EMBL Data Library, August 1996

A;Reference number: Z19200

A;Accession: T19939

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-680 <WIL>

A;Cross-references: UNIPROT:Q93374; EMBL:Z79598; PIDN:CAB01865.1; GSPDB:GN000028; CESP:C44

A;Experimental source: clone C44H4

C;Genetics:

A;Gene: CESP:C44H4.3

A;Map position: X

A;Introns: 26/3; 74/3; 122/3; 216/3; 364/3; 589/3

Query Match 2.8%; Score 12; DB 2; Length 680;
Best Local Similarity 100.0%; Pred. No. 0.0072;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 334
|||||
Db 463 TTTTNTTTTTTTT 474
|||||

RESULT 42
T23454

hypothetical protein K08E3.6 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T23454

R;McMurray, A.

submitted to the EMBL Data Library, November 1996

A;Reference number: Z19743

A;Accession: T23454

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-681 <WIL>

A;Cross-references: UNIPROT:Q9XUS9; EMBL:Z81568; PIDN:CAB04593.1; GSPDB:GN000021; CESP:K08

A;Experimental source: clone K08E3

C;Genetics:

A;Gene: CESP:K08E3.6

A;Map position: 3

A;Introns: 36/1; 73/2; 237/3; 361/3; 612/3

Query Match 2.8%; Score 12; DB 2; Length 681;
Best Local Similarity 100.0%; Pred. No. 0.0072;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 325 TTTTNTTTTTTTT 336
|||||
Db 259 TTTTNTTTTTTTT 270
|||||

RESULT 43
A54796

regulatory protein CRAC - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum

C;Date: 28-Oct-1994 #sequence_revision 28-Oct-1994 #text_change 09-Jul-2004

C;Accession: A54796

R;Insall, R.; Kuspa, A.; Lilly, P.J.; Shaulsky, G.; Levin, L.R.; Loomis, W.F.; Devreotes, J.

J. Cell Biol. 126, 1537-1545, 1994

A;Title: CRAC, a cytosolic protein containing a pleckstrin homology domain, is required for

A;Reference number: A54796; MUID:94375528; PMID:8089184

A;Accession: A54796

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-698 <INS>

A;Cross-references: UNIPROT:P35401; GB:U06228; NID:G641960; PIDN:AAA61782.1; PID:G456398

C;Genetics:

A;Introns: 11/3; 153/1

C;Superfamily: Dictyostelium regulatory protein CRAC

Query Match 2.8%; Score 12; DB 2; Length 698;

Best Local Similarity 100.0%; Pred. No. 0.0074;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 334

|||||

Db 352 TTTTNTTTTTTTT 363

RESULT 44

A36910

xylanase, beta(1,3-1,4)-glucanase - Ruminococcus flavefaciens

C;Species: Ruminococcus flavefaciens

C;Date: 07-Apr-1994 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004

C;Accession: A36910

R;Flint, H.J.; Martin, J.; McPherson, C.A.; Daniel, A.S.; Zhang, J.X.

J. Bacteriol. 175, 2943-2951, 1993

A;Title: A bifunctional enzyme, with separate xylanase and beta(1,3-1,4)-glucanase domain

A;Reference number: A36910; MUID:93259938; PMID:8491715

A;Accession: A36910

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-802 <FLI>

A;Cross-references: UNIPROT:Q9S310; GB:S61204; NID:G385910; PIDN:AAAB26620.1; PID:G385911

A;Note: sequence extracted from NCBI backbone (NCBIN:U131871, NCBIP:131872)

F;42-239/Domain: endo-1,4-beta-xylanase homology <XYL>

F;259-401/Domain: Thermotoga xylanase A amino-terminal repeat homology <TXA>

Query Match 2.8%; Score 12; DB 2; Length 802;

Best Local Similarity 100.0%; Pred. No. 0.0083;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 334

|||||

Db 532 TTTTNTTTTTTTT 543

RESULT 45

T29634

hypothetical protein C12D12.1 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T29634

R;Nhan, M.; Hawkins, J.

submitted to the EMBL Data Library, March 1996

A;Description: The sequence of C. elegans cosmid C12D12.

A;Reference number: T29634

A;Accession: T29634

A;Status: preliminary; translated from GB/EMBL/DBJ.

A;Molecule type: DNA

A;Residues: 1-825 <NHA>

A;Cross-references: UNIPROT:Q17921; EMBL:U51998; PIDN:AAA96080.1; GSPDB:GN00028; CESP:CH

A;Experimental source: strain Bristol N2; clone C12D12

C;Genetics:

A;Gene: CESP:C12D12.1

A;Map position: X

A;Introns: 48/1; 86/3; 137/1; 172/3; 224/3; 253/1; 287/3; 328/2; 454/1; 487/3; 692/1

C;Superfamily: Epstein-Barr virus membrane antigen gp350

Query Match 2.8%; Score 12; DB 2; Length 825;

Best Local Similarity 100.0%; Pred. No. 0.0085;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 334

|||||

Db 532 TTTTNTTTTTTTT 543

Qy 323 TTTTNTTTTTTTT 334

|||||

Db 748 TTTTNTTTTTTTT 759

RESULT 46

T30546

major surface glycoprotein - Pneumocystis carinii (fragment)

C;Species: Pneumocystis carinii

C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 15-Jun-2001

C;Accession: T30546

R;Mei, Q.; Turner, R.E.; Sorial, V.; Klivington, D.; Angus, C.W.; Kovacs, J.A.

Infect. Immun. 66, 4268-4273, 1998

A;Title: Characterization of major surface glycoprotein genes of human Pneumocystis carinii

A;Reference number: Z17905; MUID:98380374; PMID:9712777

A;Accession: T30546

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-1002 <MEI>

A;Cross-references: EMBL:AF038556; NID:G3560524; PID:G3560526; PIDN:AAAC34981.1

A;Experimental source: f.sp. hominis

C;Genetics:

A;Gene: msg3

C;Superfamily: Pneumocystis carinii major surface glycoprotein MSG100

Query Match 2.8%; Score 12; DB 2; Length 1002;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 325 TTTTNTTTTTTTT 336

|||||

Db 902 TTTTNTTTTTTTT 913

RESULT 47

S18253

laminin alpha-1 chain precursor - fruit fly (Drosophila melanogaster)

C;Species: Drosophila melanogaster

C;Date: 16-Sep-1992 #sequence_revision 24-Jul-1997 #text_change 09-Jul-2004

C;Accession: S18253

R;Kusche-Gullberg, M.; Garrison, K.; Mackrell, A.J.; Fessler, J.H.

EMBO J. 11, 4519-4527, 1992

A;Title: Laminin A chain: expression during Drosophila development and genomic sequence.

A;Reference number: S28399; MUID:93049203; PMID:1425586

A;Accession: S28399

A;Status: preliminary

A;Molecule type: nucleic acid

A;Residues: 1-3712 <KUS>

A;Cross-references: UNIPROT:Q00174; GB:M96388; NID:G157799; PIDN:AAA28662.1; PID:G157800

R;Garrison, K.; Mackrell, A.J.; Fessler, J.H.

J. Biol. Chem. 266, 22899-22904, 1991

A;Title: Drosophila laminin A chain sequence, interspecies comparison, and domain structure

A;Reference number: S18253; MUID:92078147; PMID:1744083

A;Accession: S18253

A;Molecule type: mRNA

A;Residues: 1762-3712 <GAR>

A;Cross-references: EMBL:M75882; NID:G157797; PIDN:AAA28661.1; PID:G157798

C;Genetics:

A;Gene: FlyBase:LANA

A;Cross-references: FlyBase:FBgn0002526

C;Superfamily: laminin alpha-1 chain; laminin G repeat homology; laminin-type EGF-like homology

C;Keywords: basement membrane; cell binding; coiled coil; disulfide bond; extracellular

F;273-330/Domain: laminin-type EGF-like homology <LEG>

F;333-400/Domain: laminin-type EGF-like homology <LE02>

F;541-584/Domain: laminin-type EGF-like homology <LEG1>

F;1776-2115/Domain: III <DOM3>

F;1776-1806/Domain: laminin-type EGF-like homology #status atypical <LE1>

F;1809-1856/Domain: laminin-type EGF-like homology <LE2>

F;1859-1914/Domain: laminin-type EGF-like homology <LE3>

F;1917-1967/Domain: laminin-type EGF-like homology <LE4>

F;1970-2014/Domain: laminin-type EGF-like homology <LE5>

F;2017-2061/Domain: laminin-type EGF-like homology <LE6>

F;2064-2109/Domain: laminin-type EGF-like homology <LE7>

F;2116-2697/Domain: I/II, heptad repeats <DOM2>
F;2698-3712/Domain: G <DOMG>
F;2698-2863/Domain: repeat G1 <RG1>
F;2864-3048/Domain: repeat G2 <RG2>
F;3049-3203/Domain: repeat G3 <RG3>
F;3079-3200/Domain: laminin G repeat homology <LG3>
F;3334-3528/Domain: repeat G4 <RG4>
F;3529-3712/Domain: repeat G5 <RG5>
F;1847,1850,1943,2024,2196,2215,2267,2301,2323,2482,2524,2538,2569,2699,2720,2890,2938,3

Query Match 2.8%; Score 12; DB 2; Length 3712;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 333
|||||
Db 3272 PTTTTTTTTTTT 3283

RESULT 48
A55575
N;Alternate names: ankyrin
C;Species: Homo sapiens (man)
C;Date: 03-Mar-1995 #sequence_revision 03-Mar-1995 #text_change 09-Jul-2004
C;Accession: A55575
R;Kordeli, E.; Lambert, S.; Bennett, V.
J. Biol. Chem. 270, 2352-2359, 1995
A;Title: Ankyrin-G. A new ankyrin gene with neural-specific isoforms localized at the ax
A;Reference number: A55575; MUID:95138209; PMID:7836469
A;Accession: A55575
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-4377 <KOR>
A;Cross-references: UNIPROT:Q12955; GB:U13616; NID:G608024; PIDN:AAA64834.1; PID:G608025

C;Genetics:
A;Gene: GDB:ANK3
A;Cross-references: GDB:424503; OMIM:600465
A;Map position: 10q21-10q21
C;Superfamily: unassigned ankyrin repeat proteins; ankyrin repeat homology; EGF homology
C;Keywords: alternative splicing; peripheral membrane protein
F;73-105/Domain: ankyrin repeat homology <AN01>
F;106-138/Domain: ankyrin repeat homology <AN02>
F;139-171/Domain: ankyrin repeat homology <AN03>
F;172-200/Domain: ankyrin repeat homology <AN04>
F;201-233/Domain: ankyrin repeat homology <AN05>
F;234-266/Domain: ankyrin repeat homology <AN06>
F;267-299/Domain: ankyrin repeat homology <AN07>
F;300-332/Domain: ankyrin repeat homology <AN08>
F;333-365/Domain: ankyrin repeat homology <AN09>
F;366-398/Domain: ankyrin repeat homology <AN10>
F;399-431/Domain: ankyrin repeat homology <AN11>
F;432-464/Domain: ankyrin repeat homology <AN12>
F;465-497/Domain: ankyrin repeat homology <AN13>
F;498-530/Domain: ankyrin repeat homology <AN14>
F;531-563/Domain: ankyrin repeat homology <AN15>
F;564-596/Domain: ankyrin repeat homology <AN16>
F;597-629/Domain: ankyrin repeat homology <AN17>
F;630-662/Domain: ankyrin repeat homology <AN18>
F;663-695/Domain: ankyrin repeat homology <AN19>
F;696-728/Domain: ankyrin repeat homology <AN20>
F;729-761/Domain: ankyrin repeat homology <AN21>
F;762-794/Domain: ankyrin repeat homology <AN22>
F;795-827/Domain: ankyrin repeat homology <AN23>

Query Match 2.8%; Score 12; DB 2; Length 4377;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTTTT 334
|||||
Db 3967 TTTTTTTTTTTT 3978

RESULT 49

D86417
probable auxin-induced protein, 50455-50036 [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004
C;Accession: D86417
R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso,
Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.;
ansen, N.F.; Hughes, B.; Huiziar, L.

Nature 408, 816-820, 2000
A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.
C.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziani,
Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, I
ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A;Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.
A;Reference number: A86141; MUID:21016719; PMID:11130712
A;Accession: D86417
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-139 <STO>
A;Cross-references: UNIPROT:Q9C7Q5; GB:AE005172; NID:gl0092232; PIDN:AAG12648.1; GSPDB:G

C;Genetics:
A;Map position: 1
Query Match 2.6%; Score 11; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTTTT 333
|||||
Db 22 TTTTTTTTTT 32

RESULT 50

T26561
hypothetical protein Y24F12A.d - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 08-Sep-2000
C;Accession: T26561
R;Jennard, N.
submitted to the EMBL Data Library, September 1999
A;Reference number: Z20233
A;Accession: T26561
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-164 <WIL>
A;Cross-references: EMBL:AL110480; PIDN:CAB54380.1; CESP:Y24F12A.d
A;Experimental source: clone Y24F12A
C;Genetics:
A;Gene: CESP:Y24F12A.d
A;Introns: 137/1
C;Superfamily: Caenorhabditis elegans hypothetical protein Y9D1A.2

Query Match 2.6%; Score 11; DB 2; Length 164;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTTTT 333
|||||
Db 112 TTTTTTTTTT 122

RESULT 51

C90029
hypothetical protein SA2097 [imported] - Staphylococcus aureus (strain N315)
C;Species: Staphylococcus aureus
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
C;Accession: C90029
R;Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.; Oguci
ma, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawano, R.; Inoue, R.; Kato, C.; Sekimizu, K.; I
C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K.

Lancet 357, 1225-1240, 2001
A;Title: Whole genome sequencing of methicillin-resistant *Staphylococcus aureus*.
A;Reference number: A89758; MUID:2i311952; PMID:11418146
A;Accession: C90029
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-166 <KUR>
A;Cross-references: UNIPROT:Q99RW9; GB:BA000018; PID:gl3702104; PIDN:BA043396.1; GSPDB:C90029
A;Experimental source: strain N315
C;Genetics:
A;Gene: SA2097

Query Match 2.6%; Score 11; DB 2; Length 166;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
Db 44 TTTT TTTT TTTT 54

RESULT 52
T46896
merozoite surface antigen 2 [imported] - malaria parasite (Plasmodium falciparum) (fragment)
C;Species: Plasmodium falciparum
C;Date: 17-Mar-2000 #sequence_revision 17-Mar-2000 #text_change 09-Jul-2004
C;Accession: T46896
R;Prescott, N.; Stowers, A.W.; Cheng, Q.; Bobogare, A.; Rzepczyk, C.M.; Saul, A.
Mol. Biochem. Parasitol. 63, 203-212, 1994
A;Title: Plasmodium falciparum genetic diversity can be characterized using the polymorphism
A;Reference number: 224128; MUID:94277144; PMID:8008018
A;Accession: T46896
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-208 <PRE>
A;Cross-references: UNIPROT:Q25949; EMBL:L19048; NID:g438839; PIDN:AAC37195.1; PID:g438839
C;Genetics:
A;Gene: MSA-2
A;Map position: 2
C;Superfamily: Epstein-Barr virus nuclear antigen

Query Match 2.6%; Score 11; DB 2; Length 208;
Best Local Similarity 100.0%; Pred. No. 0.023;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
Db 99 TTTT TTTT TTTT 109

RESULT 53
T26560
hypothetical protein Y24F12A.c - *Caenorhabditis elegans*
C;Species: *Caenorhabditis elegans*
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 08-Sep-2000
C;Accession: T26560
R;Lennard, N.
submitted to the EMBL Data Library, September 1999
A;Reference number: Z20233
A;Accession: T26560
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-234 <WIL>
A;Cross-references: EMBL:AL110480; NID:e1542182; PIDN:CAB54379.1; CESP:Y24F12A.c
A;Experimental source: clone Y24F12A
C;Genetics:
A;Gene: CESP:Y24F12A.c
A;Introns: 12/2; 55/1; 200/1
C;Superfamily: *Caenorhabditis elegans* hypothetical protein Y9D1A.2

Query Match 2.6%; Score 11; DB 2; Length 234;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
Db 175 TTTT TTTT TTTT 185

RESULT 54
S01360
salivary glue protein sgs-3 precursor - fruit fly (*Drosophila yakuba*)
C;Species: *Drosophila yakuba*
C;Date: 30-Sep-1989 #sequence_revision 30-Sep-1989 #text_change 09-Jul-2004
C;Accession: S01360; C29988
R;Martin, C.H.; Mayeda, C.A.; Meyerowitz, E.M.
J. Mol. Biol. 201, 273-287, 1988
A;Title: Evolution and expression of the Sgs-3 glue gene of *Drosophila*.
A;Reference number: S01358; MUID:88332966; PMID:3138416
A;Accession: S01360
A;Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-263 <MAR>
A;Cross-references: UNIPROT:P13728
C;Genetics:
A;Gene: Sgs-3
A;Cross-references: FlyBase:FBgn0013172
C;Superfamily: salivary glue protein
F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-263/Product: salivary glue protein sgs-3 #status predicted <MAT>

Query Match 2.6%; Score 11; DB 2; Length 263;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTT TTTT TTTT 332
Db 96 PTTT TTTT TTTT 106

RESULT 55
T29596
hypothetical protein C04G6.2 - *Caenorhabditis elegans*
C;Species: *Caenorhabditis elegans*
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C;Accession: T29596
R;Anderson, K.; Chisoe, S.
submitted to the EMBL Data Library, April 1996
A;Description: The sequence of *C. elegans* cosmid C04G6.
A;Reference number: Z20648
A;Accession: T29596
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-373 <AND>
A;Cross-references: EMBL:U55854; PIDN:AAA98013.1; GSPDB:GN00020; CESP:C04G6.2
A;Experimental source: strain Bristol N2; clone C04G6
C;Genetics:
A;Gene: CESP:C04G6.2
A;Map position: 2
A;Introns: 33/3; 85/3; 143/1; 179/1; 226/2; 263/1; 310/2

Query Match 2.6%; Score 11; DB 2; Length 373;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
Db 156 TTTT TTTT TTTT 166

RESULT 56
JC7783
RAD 23B protein - channel catfish
C;Species: *Ictalurus punctatus* (channel catfish)
C;Date: 02-Apr-2002 #sequence_revision 02-Apr-2002 #text_change 09-Jul-2004
C;Accession: JC7783

R;Iiu, Z.; Li, P.; Kocabas, A.; Karsi, A.; Ju, Z.
Biochem. Biophys. Res. Commun. 289, 317-324, 2001
A;Title: Microsatellite-containing genes from the channel catfish brain: Evidence of tri
A;Reference number: JC7783
A;Contents: Brain
A;Accession: JC7783
A;Molecule type: mRNA
A;Residues: 1-385 <LIU>
A;Cross-references: UNIPROT:Q7LZR8
C;Comment: This protein with a polythreonine tract, has importance in the nucleotide exc
C;Genetics:
A;Gene: rad23b
A;Introns: 76/73

Query Match 2.6%; Score 11; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 0.038;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTT 333
|||||
Db 114 TTTTNTTTTTTT 124

RESULT 57

T32467

hypotheical protein F52G3.5 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C;Accession: T32467

R;Blanchard, M.; Gattung, S.; Sansone, J.

submitted to the EMBL Data Library, September 1997

A;Description: The sequence of C. elegans cosmid F52G3.

A;Reference number: Z21173

A;Accession: T32467

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-415 <BLA>

A;Cross-references: UNIPROT:Q8GZH9; EMBL:AF026212; PIDN:AAB71300.1; GSPDB:GN00028; CESP

A;Experimental source: strain Bristol N2; clone F52G3

C;Genetics:

A;Gene: CESP.F52G3.5

A;Map position: X

A;Introns: 31/1; 49/1; 104/1; 117/1; 220/1; 241/2; 307/1; 370/3

Query Match 2.6%; Score 11; DB 2; Length 415;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTT 333
|||||
Db 203 TTTTNTTTTTTT 213

RESULT 58

S58868

G protein-coupled receptor GCRI - migratory locust

C;Species: Locusta migratoria (migratory locust)

C;Date: 15-Feb-1996 #sequence_revision 01-Mar-1996 #text_change 09-Jul-2004

C;Accession: S58868; S58869

R;Vanden Broeck, J.; Vulsteke, V.; Huybrechts, R.; De Loof, A.

J. Neurochem. 64, 2387-2395, 1995

A;Title: Characterization of a cloned locust tyramine receptor cDNA by functional expres

A;Reference number: S58868; MUID:95279966; PMID:7760020

A;Accession: S58868

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-484 <VAN>

A;Cross-references: UNIPROT:Q25321; EMBL:X69520; NID:g871404; PIDN:CAA49268.1; PID:g8714

A;Accession: S58869

A;Status: preliminary; nucleic acid sequence not shown; translation not shown

A;Molecule type: mRNA

A;Residues: 1-307, 'D', 309-338, 'K', 340-484 <VA2>

A;Cross-references: EMBL:X69521; NID:g871406; PIDN:CAA49269.1; PID:g871407

A;Note: the nucleotide sequence was submitted to the EMBL Data Library, November 1992
C;Superfamily: octopamine receptor type I
C;Keywords: G protein-coupled receptor

Query Match 2.6%; Score 11; DB 2; Length 484;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTT 333
|||||
Db 350 TTTTNTTTTTTT 360

RESULT 59

A35596

nuclear pore glycoprotein p62 - rat

C;Species: Rattus norvegicus (Norway rat)

C;Date: 09-Nov-1990 #sequence_revision 09-Nov-1990 #text_change 09-Jul-2004

C;Accession: A35596; A31762; I55336; S11666

R;Starr, C.M.; D'Onofrio, M.; Park, M.K.; Hanover, J.A.

J. Cell Biol. 110, 1861-1871, 1990

A;Title: Primary sequence and heterologous expression of nuclear pore glycoprotein p62.

A;Reference number: A35596; MUID:90277705; PMID:2190987

A;Accession: A35596

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-525 <STA>

A;Cross-references: UNIPROT:P17955; GB:X52583; NID:g57640; PIDN:CAA36813.1; PID:g57641

R;D'Onofrio, M.; Starr, C.M.; Park, M.K.; Holt, G.D.; Haltiwanger, R.S.; Hart, G.W.; Han

Proc. Natl. Acad. Sci. U.S.A. 85, 9595-9599, 1988

A;Title: Partial cDNA sequence encoding a nuclear pore protein modified by O-linked N-ac

A;Reference number: A31762; MUID:89071743; PMID:3200844

A;Accession: A31762

A;Molecule type: mRNA

A;Residues: 370, 'FR', 373-525 <DON>

A;Cross-references: GB:J04143; NID:96233564; PIDN:AAA60741.1; PID:96233565

A;Experimental source: hepatic

R;D'Onofrio, M.; Lee, M.D.; Starr, C.M.; Miller, M.; Hanover, J.A.

J. Biol. Chem. 266, 11980-11985, 1991

A;Title: The gene encoding rat nuclear pore glycoprotein p62 is intronless.

A;Reference number: I55336; MUID:91268076; PMID:2050692

A;Accession: I55336

A;Status: translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-525 <RES>

A;Cross-references: GB:M62992; NID:g205953; PIDN:AAA41789.1; PID:g205954

A;Experimental source: hepatic

C;Genetics:

A;Introns: #status absent

C;Keywords: coiled coil; glycoprotein

Query Match 2.6%; Score 11; DB 2; Length 525;
Best Local Similarity 100.0%; Pred. No. 0.05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTT 333
|||||
Db 274 TTTTNTTTTTTT 284

RESULT 60

A56573

nuclear pore complex glycoprotein p62 - mouse

C;Species: Mus musculus (house mouse)

C;Date: 21-Jul-1995 #sequence_revision 28-Jul-1995 #text_change 09-Jul-2004

C;Accession: A56573

R;Cordeas, V.; Waizenegger, I.; Krohne, G.

Eur. J. Cell Biol. 55, 31-47, 1991

A;Title: Nuclear pore complex glycoprotein p62 of Xenopus laevis and mouse: cDNA cloning

A;Reference number: A56573; MUID:92007945; PMID:1915419

A;Accession: A56573

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-526 <COR>
A;Cross-references: UNIPROT:Q63850; GB:S59342; NID:G236260; PIDN:AB19953.1; PID:G236261
A;Note: sequence extracted from NCBI backbone (NCBIN:59342, NCBI:P:59343)
C;Comment: The amino end of this protein contains O-linked N-acetylglucosamine additions
C;Keywords: glycoprotein; nuclear membrane; peripheral membrane protein

Query Match 2.6%; Score 11; DB 2; Length 526;
Best Local Similarity 100.0%; Pred. No. 0.05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
| | | | |
Db 274 TTTT TTTT TTTT 284

RESULT 61
A98199
translocated intimin receptor Tir [imported] - Escherichia coli (strain O157:H7, substr

C;Species: Escherichia coli
C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004
C;Accession: A98199
R;Hayaishi, T.; Makino, K.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.
gaawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.
DNA Res. 8, 11-22, 2001
A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and gen

A;Reference number: A9829; MUID:21156231; PMID:11258796
A;Accession: A98199
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-558 <HAY>
A;Cross-references: UNIPROT:Q9R396; GB:BA000007; PIDN:BA37984.1; PID:G13364036; GSPDB:G
A;Experimental source: strain O157:H7, substrain RMD 0509952
C;Genetics:
A;Gene: EceA561

Query Match 2.6%; Score 11; DB 2; Length 558;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
| | | | |
Db 393 TTTT TTTT TTTT 403

RESULT 62
E86045
probable translocated intimin receptor protein tir [imported] - Escherichia coli (strain

C;Species: Escherichia coli
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
C;Accession: E86045
R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, D.J.; Mayhew
iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, K.; Apodaca,
Nature 409, 529-533, 2001
A;Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7.
A;Reference number: A85480; MUID:21074935; PMID:11206551
A;Accession: E86045
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-558 <STO>
A;Cross-references: UNIPROT:Q9R396; GB:AE005174; NID:G12518449; PIDN:AAG58825.1; GSPDB:G
A;Experimental source: strain O157:H7, substrain EDL933
C;Genetics:
A;Gene: tir

Query Match 2.6%; Score 11; DB 2; Length 558;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
| | | | |
Db 393 TTTT TTTT TTTT 403

RESULT 63

S47277
gp88 protein - murine cytomegalovirus
C;Species: murine cytomegalovirus, murine herpesvirus 1
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: S47277
R;Thaete, R.; Lucin, P.; Schneider, K.; Koszinowski, U.
submitted to the EMBL Data Library, February 1994
A;Reference number: S47277
A;Accession: S47277
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-569 <THA>
A;Cross-references: UNIPROT:Q83183; EMBL:X77798; NID:G535195; PIDN:CAA54825.1; PID:G53519
C;Superfamily: murine cytomegalovirus gp88 protein

Query Match 2.6%; Score 11; DB 2; Length 569;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
| | | | |
Db 473 TTTT TTTT TTTT 483

RESULT 64

T24505
hypothetical protein T05C12.4 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T24505
R;Burton, J.
submitted to the EMBL Data Library, October 1995
A;Reference number: Z19901
A;Accession: T24505
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-649 <WIL>
A;Cross-references: UNIPROT:Q22225; EMBL:Z66500; PIDN:CAA91305.1; GSPDB:GN00020; CESP:T0
A;Experimental source: clone T05C12
C;Genetics:
A;Gene: CESP:T05C12.4
A;Map position: 2
A;Introns: 28/3; 48/3; 103/3; 156/3; 192/3; 249/3; 408/3; 495/3; 623/3
C;Superfamily: Caenorhabditis elegans hypothetical protein T05C12.4

Query Match 2.6%; Score 11; DB 2; Length 649;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 326 TTTT TTTT TTTT 336
| | | | |
Db 355 TTTT TTTT TTTT 365

RESULT 65

A45155
mucin FIM-C.1 - African clawed frog (fragment)
C;Species: Xenopus laevis (African clawed frog)
C;Date: 26-May-1994 #sequence_revision 26-May-1994 #text_change 09-Jul-2004
C;Accession: A45155
R;Hauser, F.; Hoffmann, W.
J. Biol. Chem. 267, 24620-24624, 1992
A;Title: P-domains as shuffled cysteine-rich modules in integumentary mucin C.1 (FIM-C.1
A;Reference number: A45155; MUID:93077556; PMID:1447205
A;Accession: A45155
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-662 <HAU>
A;Cross-references: UNIPROT:Q05049; GB:L02115; NID:G214147; PIDN:AAA74725.1; PID:G951460
P:162-202/Domain: trefoil homology <TRF1>
F:307-347/Domain: trefoil homology <TRF2>
F:354-394/Domain: trefoil homology <TRF3>

F;526-566/Domain: trefoil homology <TRF4>
F;573-613/Domain: trefoil homology <TRF5>
F;621-661/Domain: trefoil homology <TRF6>

Query Match 2.68; Score 11; DB 2; Length 662;
Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTT 332
|||||
Db 433 PTTTTTTTTT 443

RESULT 66

T25937

hypothetical protein ZC13.3 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T25937

R;Bradshaw, H.

submitted to the EMBL Data Library, August 1996

A;Description: The sequence of C. elegans cosmid ZC13.

A;Reference number: Z2013

A;Accession: T25937

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-732 <BRA>

A;Cross-references: UNIPROT:Q95Q40; EMBL:U67953; PIDN:AAB07581.1; GSPDB:GN00028; CESP:F32A5.2

A;Experimental source: strain Bristol N2; clone ZC13

C;Genetics:

A;Gene: CESP:ZC13.3

A;Map position: X

A;Introns: 19/3; 52/2; 86/1; 169/1; 301/1; 365/1; 401/3; 506/2; 528/2; 553/1; 639/1; 683

Query Match 2.68; Score 11; DB 2; Length 732;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTT 333
|||||
Db 214 TTTTTTTTTT 224

RESULT 67

T22808

hypothetical protein F56H9.1 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T22808

R;Burton, J.

submitted to the EMBL Data Library, June 1996

A;Reference number: Z19618

A;Accession: T22808

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-770 <WIL>

A;Cross-references: UNIPROT:Q20908; EMBL:Z74473; PIDN:CAA98949.1; GSPDB:GN00023; CESP:F56H9

C;Genetics:

A;Gene: CESP:F56H9.1

A;Map position: 5

A;Introns: 235/1; 262/2; 320/1; 367/2; 510/3; 654/1; 681/2

Query Match 2.68; Score 11; DB 2; Length 770;
Best Local Similarity 100.0%; Pred. No. 0.069;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTT 333
|||||
Db 633 TTTTTTTTTT 643

RESULT 68

C69493

hypothetical protein AF1948 - Archaeoglobus fulgidus

C;Species: Archaeoglobus fulgidus

C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004

C;Accession: C69493

R;Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.E.; Ketchum, K.A.; Dodson

; Fleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkness, E.F.

Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L.

Nature 390, 364-370, 1997

A;Authors: Uterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; Sykes, S.N.

Smith, H.O.; Woese, C.R.; Venter, J.C.

A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing archaeo

A;Reference number: A69250; MUID:98049343; PMID:9389475

A;Accession: C69493

A;Status: preliminary; nucleic acid sequence not shown; translation not shown

A;Molecule type: DNA

A;Residues: 1-816 <KLE>

A;Cross-references: UNIPROT:O28331; GB:AE000968; GB:AE000782; NID:g2689291; PIDN:AAB89301

Query Match 2.6%; Score 11; DB 2; Length 816;
Best Local Similarity 100.0%; Pred. No. 0.072;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTT 332
|||||
Db 159 PTTTTTTTTT 169

RESULT 69

T16232

hypothetical protein F32A5.2 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999

C;Accession: T16232

R;Fauley, A.

submitted to the EMBL Data Library, July 1995

A;Description: The sequence of C. elegans cosmid F32A5.

A;Reference number: Z18482

A;Accession: T16232

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-977 <PAU>

A;Cross-references: EMBL:U20864; NID:g669026; PID:g669033; PIDN:AAC46666.1; CESP:F32A5.2

A;Experimental source: strain Bristol N2

C;Genetics:

A;Gene: CESP:F32A5.2

A;Introns: 23/1; 58/3; 102/3; 136/2; 277/2; 380/2; 422/1; 502/1; 580/2; 648/1; 935/2

Query Match 2.6%; Score 11; DB 2; Length 977;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 320 PPTTTTTTTT 330
|||||
Db 357 PPTTTTTTTT 367

RESULT 70

T18275

1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 4 - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T18275

R;Zhou, K.; Takegawa, K.; Emr, S.D.; Firtel, R.A.

Mol. Cell. Biol. 15, 5645-5656, 1995

A;Title: A phosphatidylinositol (PI) kinase gene family in Dictyostelium discoideum: Bio

A;Reference number: Z06411

A;Accession: T18275

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-1093 <ZHO>

A;Cross-references: UNIPROT:P54677; EMBL:U23479; NID:g733527; PID:g733528; PIDN:AAA85725

C;Genetics:

GSFF3
 salivary glue protein sgs-3 - fruit fly (Drosophila melanogaster)
 C:Species: Drosophila melanogaster
 C>Date: 28-May-1986 #sequence_revision 28-May-1986 #text_change 09-Jul-2004
 C:Accession: A03329
 R:Garfinkel, M.D.; Pruitt, R.E.; Meyerowitz, E.M.
 J. Mol. Biol. 168, 765-789, 1983
 A:Title: DNA sequences, gene regulation and modular protein evolution in the Drosophila
 A:Reference number: A92904; MUID:83294545; PMID:6411930
 A:Accession: A03329
 A:Molecule type: DNA
 A:Residues: 1-307 <GAR>
 A:Cross-references: UNIPROT:P02840; GB:X01918; NID:g8581; PIDN:CAA25994.1; PID:g603989
 C:Comment: This protein is produced by third-instar larvae.
 C:Genetics:
 A:Gene: sgs-3
 A:Cross-references: FlyBase:FBgn0003373
 A:Map position: 3L (68C)
 A:Introns: 10/1
 C:Superfamily: salivary glue protein
 C:Keywords: salivary gland; tandem repeat

Query Match 2.4%; Score 10; DB 1; Length 307;
 Best Local Similarity 100.0%; Pred. No. 0.27;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 332
 |||||
 Db 45 TTTT TTTT TTTT 54

Search completed: June 28, 2005, 10:21:29
 Job time : 28.4289 secs

GenCore version 5.1.6

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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:55:58 ; Search time 109.051 Seconds
(without alignments)

1986.316 Million cell updates/sec

Title: US-10-622-237-4

Perfect score: 423

Sequence: 1 AAPPGLRLRLLLLLLSAAL.....TAINAEGGQNNSEKKEYF 423

Scoring table:

OLIGO Gapex 60.0 , Gapext 60.0

Searched: 1612378 seqs, 512079187 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database : UniProt_03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	423	100.0	445	2	Q8R4L1 mus musculus
2	342	80.9	456	2	Q8R5M8 mus musculus
3	334	79.0	445	2	Q8K3T6 mus musculus
4	314	74.2	417	2	Q7TNL1 mus musculus
5	314	74.2	428	2	Q6F3J3 mus musculus
6	313	74.0	336	2	Q80VQ4 mus musculus
7	313	74.0	336	2	Q80VQ4 mus musculus
8	294	69.5	295	2	Q9D6E7 mus musculus
9	227	53.7	476	2	Q9D2H8 mus musculus
10	150	35.5	333	2	Q6AYP5 rattus norv
11	150	35.5	333	2	Q86WB8 mus sapien
12	119	28.1	442	2	Q8N2F4 homo sapien
13	115	27.2	278	2	Q8BYE7 mus sapien
14	115	27.2	289	2	Q9QYL3 mus musculus
15	115	27.2	295	2	Q9QYL5 mus musculus
16	115	27.2	306	2	Q9QYL6 mus musculus
17	71	16.8	84	2	Q9QYL4 mus musculus
18	15	3.5	74	2	Q6MZK6 homo sapien
19	15	3.5	86	2	Q6L023 trypanosoma
20	15	3.5	98	2	Q9TVF2 trypanosoma
21	15	3.5	102	2	Q6L058 trypanosoma
22	15	3.5	108	2	Q6L033 trypanosoma
23	15	3.5	115	2	Q9XWNO caenorhabdi
24	15	3.5	121	2	Q6L046 trypanosoma
25	15	3.5	122	2	Q6WAZ9 trypanosoma
26	15	3.5	125	2	O15774 trypanosoma
27	15	3.5	125	2	O61025 trypanosoma
28	15	3.5	126	2	Q962W4 trypanosoma
29	15	3.5	126	2	O61021 trypanosoma
30	15	3.5	128	2	O61056 trypanosoma
31	15	3.5	139	2	P90603 trypanosoma
					O61037 trypanosoma

32	15	3.5	139	2	P90601	P90601 trypanosoma
33	15	3.5	139	2	Q6WAZ8	Q6WAZ8 trypanosoma
34	15	3.5	140	2	Q962W5	Q962W5 trypanosoma
35	15	3.5	143	2	O15776	O15776 trypanosoma
36	15	3.5	148	2	O61019	O61019 trypanosoma
37	15	3.5	148	2	Q6WB00	Q6WB00 trypanosoma
38	15	3.5	327	2	Q25334	Q25334 leishmania
39	15	3.5	648	2	Q86A81	Q86A81 d simlari t
40	15	3.5	1015	2	Q86AG0	Q86AG0 dictyosteli
41	14	3.3	58	2	O6TUI3	O6TUI3 rattus norv
42	14	3.3	107	2	O61050	O61050 trypanosoma
43	14	3.3	216	2	Q962W6	Q962W6 trypanosoma
44	14	3.3	304	1	QCOB CAEEL	Q9300 caenorhabdi
45	14	3.3	341	2	Q8IMS9	Q8IMS9 drosophila
46	14	3.3	350	2	Q7QIR0	Q7QIR0 anopheles g
47	14	3.3	356	2	O7PZ21	O7PZ21 anopheles g
48	14	3.3	364	2	O7S2P4	O7S2P4 neurospora
49	14	3.3	365	2	Q869R5	Q869R5 dictyosteli
50	14	3.3	445	2	Q7Q956	Q7Q956 anopheles g
51	14	3.3	512	1	WR33 ARATH	Q88P5 arabidopsis
52	14	3.3	517	1	1A1C DIACA	P27486 dianthus ca
53	14	3.3	518	2	Q43753	Q43753 dianthus ca
54	14	3.3	667	2	O7YVY0	O7YVY0 cryptospori
55	14	3.3	717	2	Q8UIH5	Q8UIH5 pyrococcus
56	14	3.3	746	2	Q9V515	Q9V515 drosophila
57	14	3.3	860	2	Q23916	Q23916 dictyosteli
58	14	3.3	872	2	Q26257	Q26257 dictyosteli
59	14	3.3	874	2	O76535	O76535 dictyosteli
60	14	3.3	887	2	Q23913	Q23913 dictyosteli
61	14	3.3	889	2	Q23895	Q23895 dictyosteli
62	14	3.3	895	2	Q86A69	Q86A69 dictyosteli
63	14	3.3	937	2	Q86147	Q86147 dictyosteli
64	14	3.3	1166	2	Q8IP52	Q8IP52 drosophila
65	14	3.3	1728	2	Q8SSU4	Q8SSU4 dictyosteli
66	14	3.3	1832	2	O96503	O96503 cryptospori
67	14	3.3	1853	2	O7KT96	O7KT96 drosophila
68	14	3.3	1893	2	Q9NKC9	Q9NKC9 drosophila
69	14	3.3	3295	2	Q86HN4	Q86HN4 dictyosteli
70	14	3.3	3295	2	Q66GT3	Q66GT3 rattus norv
71	14	3.3	3550	2	Q66GT4	Q66GT4 rattus norv
72	13	3.1	56	2	Q01601	Q01601 pneumocysti
73	13	3.1	56	2	Q86IE6	Q86IE6 dictyosteli
74	13	3.1	67	2	Q95UY4	Q95UY4 plasmodium
75	13	3.1	67	2	Q95UY6	Q95UY6 plasmodium
76	13	3.1	67	2	Q86JN9	Q86JN9 dictyosteli
77	13	3.1	71	2	O9NI03	O9NI03 plasmodium
78	13	3.1	71	2	O6R5F0	O6R5F0 mus musculu
79	13	3.1	72	2	Q9WJQ9	Q9WJQ9 drosophila
80	13	3.1	89	2	O9NIP9	O9NIP9 trypanosoma
81	13	3.1	106	2	Q6WB03	Q6WB03 trypanosoma
82	13	3.1	106	2	Q6WB04	Q6WB04 trypanosoma
83	13	3.1	106	2	Q6WB05	Q6WB05 trypanosoma
84	13	3.1	107	2	Q6WB01	Q6WB01 trypanosoma
85	13	3.1	107	2	Q6WB08	Q6WB08 trypanosoma
86	13	3.1	107	2	O9NIQ1	O9NIQ1 trypanosoma
87	13	3.1	108	2	Q6WB02	Q6WB02 trypanosoma
88	13	3.1	109	2	O01619	O01619 pneumocysti
89	13	3.1	115	2	O9BJQ9	O9BJQ9 plasmodium
90	13	3.1	116	2	Q9BJQ2	Q9BJQ2 plasmodium
91	13	3.1	118	2	Q9NIP8	Q9NIP8 trypanosoma
92	13	3.1	119	2	O61034	O61034 trypanosoma
93	13	3.1	119	2	O9NG63	O9NG63 trypanosoma
94	13	3.1	120	2	Q9GQV0	Q9GQV0 plasmodium
95	13	3.1	120	2	O9NIQ0	O9NIQ0 trypanosoma
96	13	3.1	123	2	O61027	O61027 trypanosoma
97	13	3.1	123	2	P90602	P90602 trypanosoma
98	13	3.1	128	2	O9NIQ2	O9NIQ2 trypanosoma
99	13	3.1	130	2	Q6WB06	Q6WB06 trypanosoma
100	13	3.1	131	2	O9D9N0	O9D9N0 mus musculu
101	13	3.1	132	2	O9NIQ3	O9NIQ3 trypanosoma
102	13	3.1	139	2	O7ZON2	O7ZON2 caenorhabdi
103	13	3.1	143	2	Q8IT82	Q8IT82 plasmodium
104	13	3.1	150	2	O9BJQ6	O9BJQ6 plasmodium

105 13 3.1 150 2 Q9BJQ7 Q9bjq7 plasmodium
 106 13 3.1 150 2 Q9GQX3 Q9gqx3 plasmodium
 107 13 3.1 150 2 Q8LEL8 Q8lel8 arabidopsis
 108 13 3.1 152 2 Q8BSQ8 Q8bsq8 mus musculus
 109 13 3.1 155 2 Q6USF5 Q6usf5 plasmodium
 110 13 3.1 157 2 Q25713 Q25713 plasmodium
 111 13 3.1 160 2 Q94669 Q94669 plasmodium
 112 13 3.1 163 2 Q9NVJ5 Q9nvj5 homo sapien
 113 13 3.1 163 2 Q8KLH8 Q8klh8 mus musculus
 114 13 3.1 164 2 Q9BJQ5 Q9bjq5 plasmodium
 115 13 3.1 202 2 Q01615 Q01615 pneumocysti
 116 13 3.1 205 2 Q15777 Q15777 trypanosoma
 117 13 3.1 205 2 Q15911 Q15911 dictyosteli
 118 13 3.1 207 2 Q25701 Q25701 plasmodium
 119 13 3.1 209 2 Q61055 Q61055 trypanosoma
 120 13 3.1 210 2 Q9Y025 Q9y025 trypanosoma
 121 13 3.1 211 2 Q00026 Q00026 ajellomyces
 122 13 3.1 217 1 SGS3 DROS1 P13729 drosophila
 123 13 3.1 229 2 Q9VIA7 Q9via7 drosophila
 124 13 3.1 242 2 Q9VDN0 Q9vdn0 drosophila
 125 13 3.1 245 2 Q9XWP2 Q9xwp2 caenorhabdi
 126 13 3.1 259 2 Q86IM4 Q86im4 dictyosteli
 127 13 3.1 260 2 Q8IT83 Q8it83 plasmodium
 128 13 3.1 274 1 MSA2 PLAF6 P50497 plasmodium
 129 13 3.1 277 2 Q86IC7 Q86ic7 dictyosteli
 130 13 3.1 278 2 Q25862 Q25862 plasmodium
 131 13 3.1 283 2 Q86IL5 Q86il5 dictyosteli
 132 13 3.1 284 2 Q20202 Q20202 caenorhabdi
 133 13 3.1 291 2 Q658Q7 Q658q7 homo sapien
 134 13 3.1 291 2 Q94467 Q94467 dictyosteli
 135 13 3.1 312 2 Q01824 Q01824 pneumocysti
 136 13 3.1 336 1 RT09 CANAL Q94150 candida alb
 137 13 3.1 337 2 Q86K30 Q86k30 dictyosteli
 138 13 3.1 365 2 Q7YUV8 Q7yuv8 trypanosoma
 139 13 3.1 367 2 Q7YUQ8 Q7yuq8 trypanosoma
 140 13 3.1 369 2 Q7YUQ1 Q7yuq1 trypanosoma
 141 13 3.1 369 2 Q7YUQ2 Q7yuq2 trypanosoma
 142 13 3.1 369 2 Q7YUQ3 Q7yuq3 trypanosoma
 143 13 3.1 369 2 Q7YUQ4 Q7yuq4 trypanosoma
 144 13 3.1 374 2 Q7QCS5 Q7qcs5 anopheles g
 145 13 3.1 386 2 Q01759 Q01759 pneumocysti
 146 13 3.1 392 2 Q8IIC1 Q8iic1 plasmodium
 147 13 3.1 392 2 Q69258 Q69258 mus musculus
 148 13 3.1 394 2 Q7ZXX1 Q7zxx1 xenopus lae
 149 13 3.1 395 2 Q8BXJ7 Q8bxj7 m mus muscu
 150 13 3.1 395 2 Q8BZP4 Q8bzp4 mus musculus

ALIGNMENTS

RESULT 1
 Q8R4L1 Q8R4L1 PRELIMINARY; PRT; 445 AA.
 AC Q8R4L1;
 DT 01-JUN-2002 (TREMBLrel. 21, Created)
 DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
 DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
 DE Tumor suppressor in lung cancer 1.
 GN Name=Igsf4a;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=129/SvJ;
 RX MEDLINE=2226620; PubMed=12242005; DOI=10.1016/S0378-1119(02)00835-1;
 RA Fukami T., Satoh H., Fujita E., Maruyama T., Fukuhara H.,
 RA Kuramochi M., Takamoto S., Momoi T., Murakami Y.;
 RT Identification of the Tslci gene, a mouse orthologue of the human
 RT tumor suppressor TSLC1 gene.";
 RL Gene 295:7-12(2002).

Query Match 100.0%; Score 423; DB 2; Length 445;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AAPGLRLRLLLLLLSAAALIFTGQGNLFTKDVTVIEGEVATISCQVKNKSDSVIQLLN 60
 DB 22 AAPGLRLRLLLLLLSAAALIFTGQGNLFTKDVTVIEGEVATISCQVKNKSDSVIQLLN 81
 QY 61 PNQRTIYPRDPRPLKDSRFQLLNFSSSELKVSLLTNVSISSDEGRYFCQLYTDPPQESYTTI 120
 DB 82 PNQRTIYPRDPRPLKDSRFQLLNFSSSELKVSLLTNVSISSDEGRYFCQLYTDPPQESYTTI 141
 QY 121 TVLVPPRNLMIDIQKDTAVEGEEIEVNCVTAMASKPATITIRWFKGNKELKGKSEVEEWSM 180
 DB 142 TVLVPPRNLMIDIQKDTAVEGEEIEVNCVTAMASKPATITIRWFKGNKELKGKSEVEEWSM 201
 QY 181 YVTSQMLKVKHKEDDGPVICQVEHPAVTGNLQTORYLEVOYKQVHIQMTYPLQGLTR 240
 DB 202 YVTSQMLKVKHKEDDGPVICQVEHPAVTGNLQTORYLEVOYKQVHIQMTYPLQGLTR 261
 QY 241 EGDAPELTCEALGKQPQVMTWVRVDDDEMPQHAVLSGPNLFNNLNKTDNGTYRCEASNI 300
 DB 262 EGDAPELTCEALGKQPQVMTWVRVDDDEMPQHAVLSGPNLFNNLNKTDNGTYRCEASNI 321
 QY 301 VGKAHSDMYLVYDPTTIPPTTT 360
 DB 322 VGKAHSDMYLVYDPTTIPPTTT 381
 QY 361 GVAVVVFAMLCLLILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQQNNSEKK 420
 DB 382 GVAVVVFAMLCLLILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQQNNSEKK 441
 QY 421 EYF 423
 DB 442 EYF 444

RESULT 2
 Q8R5M8 Q8R5M8 PRELIMINARY; PRT; 456 AA.
 AC Q8R5M8;
 DT 01-JUN-2002 (TREMBLrel. 21, Created)
 DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
 DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
 DE RAL75.
 GN Name=Igsf4a; Synonyms=RAL75;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
 RA Fujita E., Soyama A., Momoi T.;
 RT "RAL75, which is the mouse ortholog of TSLC1, a tumor suppressor gene

in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB064265; BAB83501.2; -;
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; P:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig_c2.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS0835; IG_LIKE; 3.
SQ SEQUENCE 456 AA; 49787 MW; 3226B866A4BC1C7F CRC64;

Query Match 80.9%; Score 342; DB 2; Length 456;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAPGLRLRLLLLSAAALIPGQGNLFTKQVTVIEGEVATISCOVNSDDSVIQLLN 60
DB 22 AAPGLRLRLLLLSAAALIPGQGNLFTKQVTVIEGEVATISCOVNSDDSVIQLLN 81
QY 61 PNRTIYFRPRPLKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPOESYTTI 120
DB 82 PNRTIYFRPRPLKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPOESYTTI 141
QY 121 TVLVPPLNLMIDIQKTAVEGEIEVNCTAMASKPATTIRFWKGNKELKGKSEVEEWSDM 180
DB 142 TVLVPPLNLMIDIQKTAVEGEIEVNCTAMASKPATTIRFWKGNKELKGKSEVEEWSDM 201
QY 181 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQRYLEVQYKPOVHIQNTYPLQGLTR 240
DB 202 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQRYLEVQYKPOVHIQNTYPLQGLTR 261
QY 241 EGDFAFELTCEAIGKQPQPMVTVRVDDEMPQHAVLSPNLFINNLTNDGTGYRCEASNI 300
DB 262 EGDFAFELTCEAIGKQPQPMVTVRVDDEMPQHAVLSPNLFINNLTNDGTGYRCEASNI 321
QY 301 VGKAHSDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 342
DB 322 VGKAHSDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 363

RESULT 3
Q8K3T6
ID Q8K3T6 PRELIMINARY; PRT; 445 AA.
AC Q8K3T6;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Synaptic cell adhesion molecule 1 (RA175 isoform c).
GN Name=Igsf4a; Synonyms=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL;
RX MEDLINE=2219378; PubMed=12202822; DOI=10.1126/science.1072356;
RA Biederer T., Sara Y., Mozhayeva M., Atsuo D., Liu X., Kavalali E.T.,
RA Sudhof T.C.;
RT "SynCAM, a Synaptic Adhesion Molecule That Drives Synapse Assembly.";
RL Science 297:1525-1531(2002).
RN [2]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;

Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
RL EMBL; AF539424; AA01614.1; -;
DR EMBL; AB183399; BAD30018.1; -;
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; P:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig_c2.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS0835; IG_LIKE; 3.
SQ SEQUENCE 445 AA; 48666 MW; 5B336F23F1877497 CRC64;

Query Match 79.0%; Score 334; DB 2; Length 445;
Best Local Similarity 100.0%; Pred. No. 2.4e-313;
Matches 334; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAPGLRLRLLLLSAAALIPGQGNLFTKQVTVIEGEVATISCOVNSDDSVIQLLN 60
DB 22 AAPGLRLRLLLLSAAALIPGQGNLFTKQVTVIEGEVATISCOVNSDDSVIQLLN 81
QY 61 PNRTIYFRPRPLKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPOESYTTI 120
DB 82 PNRTIYFRPRPLKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPOESYTTI 141
QY 121 TVLVPPLNLMIDIQKTAVEGEIEVNCTAMASKPATTIRFWKGNKELKGKSEVEEWSDM 180
DB 142 TVLVPPLNLMIDIQKTAVEGEIEVNCTAMASKPATTIRFWKGNKELKGKSEVEEWSDM 201
QY 181 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQRYLEVQYKPOVHIQNTYPLQGLTR 240
DB 202 YTVTSQMLKVKHEDDGPVICOVEHPAVTGNLQRYLEVQYKPOVHIQNTYPLQGLTR 261
QY 241 EGDFAFELTCEAIGKQPQPMVTVRVDDEMPQHAVLSPNLFINNLTNDGTGYRCEASNI 300
DB 262 EGDFAFELTCEAIGKQPQPMVTVRVDDEMPQHAVLSPNLFINNLTNDGTGYRCEASNI 321
QY 301 VGKAHSDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 334
DB 322 VGKAHSDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 355

RESULT 4
Q7TNL1
ID Q7TNL1 PRELIMINARY; PRT; 417 AA.
AC Q7TNL1;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Nectin-like molecule 2 (RA175 isoform d).
GN Name=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Brain;
RX MEDLINE=22841094; PubMed=12826663; DOI=10.1074/jbc.M305387200;
RA Shingai T., Ikeda W., Kakunaga S., Morimoto K., Takekuni K., Itoh S.,
RA Satoh K., Takeuchi M., Imai T., Monden M., Takai Y.;
RT "Implications of nectin-like molecule-
RT 2/IGSF4/RA175/SGISF/TSGL1/SyncCAM1 in cell-cell adhesion and
RT transmembrane protein localization in epithelial cells.";
RL J. Biol. Chem. 278:35421-35427(2003).
RN [2]

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RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY351388; AAC02381.1; -.
DR EMBL; AB183401; BAD30202.1; -.
DR GO: 0016021; C: integral to membrane; TAS.
DR GO: 0045202; C: synapse; IDA.
DR GO: 0008021; C: synaptic vesicle; IDA.
DR GO: 0005515; F: protein binding; IPI.
DR GO: 0016338; P: calcium-independent cell-cell adhesion; IDA.
DR GO: 0007155; P: cell adhesion; IDA.
DR GO: 0007416; P: synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig C2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 417 AA; 45779 MW; 98500180D37845C2 CRC64;

Query Match 74.2%; Score 314; DB 2; Length 417;
Best Local Similarity 100.0%; Pred. No. 4.7e-294;
Matches 314; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AAPPGLRLRLLLLLLSAAALIPGDCGNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLN 60
Db 22 AAPPGLRLRLLLLLLSAAALIPGDCGNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLN 81
Qy 61 PNRQTIYFRDPRPKDSRFOLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 120
Db 82 PNRQTIYFRDPRPKDSRFOLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 141
Qy 121 TVLVPPRLNLMIDIQKDTAVEGEIEVNCATAMASKPATIRWFKNKELKCKSEVEWSDM 180
Db 142 TVLVPPRLNLMIDIQKDTAVEGEIEVNCATAMASKPATIRWFKNKELKCKSEVEWSDM 201
Qy 181 YTVTSQMLMKVHKEDDGVPIQVQHEPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTR 240
Db 202 YTVTSQMLMKVHKEDDGVPIQVQHEPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTR 261
Qy 241 EGDAFELTCEAIGKQPQVMTVVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCASNI 300
Db 262 EGDAFELTCEAIGKQPQVMTVVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCASNI 321
Qy 301 VGKAHSDYMLYVVD 314
Db 322 VGKAHSDYMLYVVD 335

RESULT 5
Q6F3J3 PRELIMINARY; PRT; 428 AA.
AC Q6F3J3;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE RAL75 isoform b.
GN Name=RAL75;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB183400; BAD30019.1; -.
DR GO: 0016021; C: integral to membrane; TAS.
DR GO: 0045202; C: synapse; IDA.
DR GO: 0008021; C: synaptic vesicle; IDA.
DR GO: 0005515; F: protein binding; IPI.
DR GO: 0016338; P: calcium-independent cell-cell adhesion; IDA.
DR GO: 0007416; P: synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
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DR GO: 0007155; P: cell adhesion; IDA.
DR GO: 0007416; P: synaptogenesis; IDA.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_C2.
DR Pfam; PF00047; Ig; 3.
DR SMART; SM00409; IGC2; 3.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 428 AA; 46903 MW; B10DFF1A2B983573 CRC64;

Query Match 74.2%; Score 314; DB 2; Length 428;
Best Local Similarity 100.0%; Pred. No. 4.8e-294;
Matches 314; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AAPPGLRLRLLLLLLSAAALIPGDCGNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLN 60
Db 22 AAPPGLRLRLLLLLLSAAALIPGDCGNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLN 81
Qy 61 PNRQTIYFRDPRPKDSRFOLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 120
Db 82 PNRQTIYFRDPRPKDSRFOLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 141
Qy 121 TVLVPPRLNLMIDIQKDTAVEGEIEVNCATAMASKPATIRWFKNKELKCKSEVEWSDM 180
Db 142 TVLVPPRLNLMIDIQKDTAVEGEIEVNCATAMASKPATIRWFKNKELKCKSEVEWSDM 201
Qy 181 YTVTSQMLMKVHKEDDGVPIQVQHEPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTR 240
Db 202 YTVTSQMLMKVHKEDDGVPIQVQHEPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTR 261
Qy 241 EGDAFELTCEAIGKQPQVMTVVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCASNI 300
Db 262 EGDAFELTCEAIGKQPQVMTVVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCASNI 321
Qy 301 VGKAHSDYMLYVVD 314
Db 322 VGKAHSDYMLYVVD 335

RESULT 6
Q80VG4 PRELIMINARY; PRT; 336 AA.
AC Q80VG4;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE A secretion form of SgIGSF/TSLC1 (RAL75 isoform e).
GN Name=IgSF4; Synonyms=RAL75, sSgIGSF/STSLC1;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB092414; BAC66173.1; -.
DR EMBL; AB183402; BAD30021.1; -.
DR MGD; MGI:1889272; IgSF4a.
DR GO: 0016021; C: integral to membrane; TAS.
DR GO: 0045202; C: synapse; IDA.
DR GO: 0008021; C: synaptic vesicle; IDA.
DR GO: 0005515; F: protein binding; IPI.
DR GO: 0016338; P: calcium-independent cell-cell adhesion; IDA.
DR GO: 0007155; P: cell adhesion; IDA.
DR GO: 0007416; P: synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
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DT 01-JUN-2003 (T-EMBLrel. 24, Created)
DT 01-JUN-2003 (T-EMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (T-EMBLrel. 26, Last annotation update)
DE Secretory isoform of TSLC-1.
GN Name=sTSLC-1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP TISSUE=Lung;
RC
RL Submitted (OCT-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB094146; BAC66178.1; -.
DR InterPro; IPR007110; Ig_Like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig_2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 333 AA; 36915 MW; D7C1102F46D08492 CRC64;

Query Match 35.5%; Score 150; DB 2; Length 333;
Best Local Similarity 100.0%; Pred. No. 8.3e-136;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDPRPLK 75
DB 34 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDPRPLK 93

QY 76 DSRFQLNFSSSELKVSLSNVISDSGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 135
DB 94 DSRFQLNFSSSELKVSLSNVISDSGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 153

QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKN 165
DB 154 DTAVEGEIEVNCNTAMASKPATIRWFKN 183

RESULT 11
Q8N2F4 PRELIMINARY; PRT; 443 AA.
ID Q8N2F4
AC Q8N2F4
DT 01-OCT-2002 (T-EMBLrel. 22, Created)
DT 01-OCT-2002 (T-EMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (T-EMBLrel. 26, Last annotation update)
DE Hypothetical protein PSEC0200.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP TISSUE-whole embryo;
RC
RA Ota T., Nishikawa T., Suzuki Y., Kawai-Hio Y., Hayaishi K., Ishii S.,
RA Saito K., Yamamoto J., Wakamatsu A., Nagai T., Nakamura Y.,
RA Nagahari K., Sugano S., Isogai T.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK075502; BAC11657.1; -.
DR Genew; HGNC:5951; IGSF4.
DR InterPro; IPR007110; Ig_Like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig_2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 443 AA; 48648 MW; 046B43AA156F6F64 CRC64;

Query Match 35.5%; Score 150; DB 2; Length 443;
Best Local Similarity 100.0%; Pred. No. 1.1e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDPRPLK 75
DB 34 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDPRPLK 93

QY 76 DSRFQLNFSSSELKVSLSNVISDSGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 135
DB 94 DSRFQLNFSSSELKVSLSNVISDSGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 153

QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKN 165
DB 154 DTAVEGEIEVNCNTAMASKPATIRWFKN 183

RESULT 12
Q9BY67 PRELIMINARY; PRT; 442 AA.
ID Q9BY67
AC Q9BY67
DT 01-JUN-2001 (T-EMBLrel. 17, Created)
DT 01-JUN-2001 (T-EMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE Nectin-like protein 2.
GN Name=NECL2;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
RL Submitted (MAR-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF132811; AAF69029.1; -.
DR InterPro; IPR007110; Ig_Like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig_2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 442 AA; 48537 MW; 68183E3238735062 CRC64;

Query Match 28.1%; Score 119; DB 2; Length 442;
Best Local Similarity 100.0%; Pred. No. 8.9e-106;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDPRPLK 75
DB 34 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDPRPLK 93

QY 76 DSRFQLNFSSSELKVSLSNVISDSGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 134
DB 94 DSRFQLNFSSSELKVSLSNVISDSGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 152

RESULT 13
Q9QYL3 PRELIMINARY; PRT; 278 AA.
ID Q9QYL3
AC Q9QYL3
DT 01-MAY-2000 (T-EMBLrel. 13, Created)
DT 01-MAY-2000 (T-EMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE Adhesion protein RAI75N.
GN Name=igsf4; Synonyms=ral75n;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
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DR EMBL; AB021967; BAA87917.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 278 AA; 3636 MW; A295F4DEA2724B04 CRC64;

Query Match 27.2%; Score 115; DB 2; Length 278;
Best Local Similarity 100.0%; Pred. No. 4.4e-102;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 189
Db 1 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 60

QY 190 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 244
Db 61 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 115

RESULT 14
QYQVL5 PRELIMINARY; PRT; 289 AA.
AC QYQVL5;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RA175B.
GN Name=Igsf4a; Synonyms=ra175b;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RA175, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021965; BAA87915.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 289 AA; 3181 MW; 8D1B836D0565A8A4 CRC64;

Query Match 27.2%; Score 115; DB 2; Length 289;
Best Local Similarity 100.0%; Pred. No. 4.5e-102;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 130 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 189
Db 1 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 60

QY 190 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 244
Db 61 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 115

RESULT 15
QYQVL6 PRELIMINARY; PRT; 295 AA.
AC QYQVL6;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RA175A.
GN Name=Igsf4a; Synonyms=ra175a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RA175, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021964; BAA87914.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 295 AA; 32347 MW; FDD9E8145C6B971B CRC64;

Query Match 27.2%; Score 115; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 4.6e-102;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 189
Db 1 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 60

QY 190 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 244
Db 61 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 115

RESULT 16
QYQVL4 PRELIMINARY; PRT; 306 AA.
AC QYQVL4;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RA175C.
GN Name=Igsf4a; Synonyms=ra175c;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RA175, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021965; BAA87915.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 289 AA; 3181 MW; 8D1B836D0565A8A4 CRC64;

Query Match 27.2%; Score 115; DB 2; Length 289;
Best Local Similarity 100.0%; Pred. No. 4.5e-102;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RN RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAI75, which is the mouse ortholog of TSUCl, a tumor suppressor gene
RL in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021966; BAA87916.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig C2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.im; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
SQ SEQUENCE 306 AA; 33522 MW; A4CE37B0F23554D5 CRC64;

Query Match 27.28; Score 115; DB 2; Length 306;
Best Local Similarity 100.0%; Pred. No. 4.7e-102;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 MIDIQKTAVGEIEIVNCTAMASKPATTIRWFKGNKELKGKSEVEWSMYTTSQML 189
DB 1 MIDIQKTAVGEIEIVNCTAMASKPATTIRWFKGNKELKGKSEVEWSMYTTSQML 60

QY 190 KVKHEDDGPVICOVEHPAVTGNLQTORYLEVQKPVQHIQMTYPLQGLTREGDA 244
DB 61 KVKHEDDGPVICOVEHPAVTGNLQTORYLEVQKPVQHIQMTYPLQGLTREGDA 115

RESULT 17
Q6WZK6 PRELIMINARY; PRT; 84 AA.
AC Q6WZK6;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Hypothetical protein DKFZp686f1789 (Fragment).
GN Name=DKFZp686f1789;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Human retina;
RG The German Human cDNA Consortium;
RA Koehler K., Beyer A., Mewes H.W., Weil B., Amid C., Osanger A.,
RA Fobo G., Han M., Wiemann S.;
RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BX641042; CAB46024.1; -.
KW Hypothetical protein.
FT NON TER 1
SQ SEQUENCE 84 AA; 8986 MW; D50A20AD25854087 CRC64;

Query Match 16.8%; Score 71; DB 2; Length 84;
Best Local Similarity 100.0%; Pred. No. 4.7e-60;
Matches 71; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 353 AVDHAVIGGVAVVVFAMLCILLILGRYFARHKGTFTHEAKGADDAADATAIINAE 412
DB 13 AVDHAVIGGVAVVVFAMLCILLILGRYFARHKGTFTHEAKGADDAADATAIINAE 72

QY 413 QNNSEKKEYF 423
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Db 73 QNNSEKKEYF 83

RESULT 18
O61023 PRELIMINARY; PRT; 74 AA.
AC O61023;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-4;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RL genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036411; AAC14222.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 74
SQ SEQUENCE 74 AA; 7743 MW; 734CC37663E21401 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 74;
Best Local Similarity 100.0%; Pred. No. 4.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 59 PPTTTTTTTTTTTT 73

RESULT 19
Q9TVF2 PRELIMINARY; PRT; 86 AA.
AC Q9TVF2;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-12;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RL genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036436; AAC14240.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 86
SQ SEQUENCE 86 AA; 8963 MW; 7AD26B22604E36A9 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 86;
Best Local Similarity 100.0%; Pred. No. 5.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 71 PPTTTTTTTTTTTT 85
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RESULT 20
O61058      PRELIMINARY;      PRT;      98 AA.
AC
DT 01-NOV-1999 (TREMBlrel. 07, Created)
O61058;
AT
DT 01-AUG-1998 (TREMBlrel. 07, Last sequence update)
DT 01-AUG-1998 (TREMBlrel. 07, Last sequence update)
DE Mucin-like protein (Fragment).
GN Name=EMUCt-18;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions."
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036465; AAC14259.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
DR NON TER 98
FT SEQUENCE 98 AA; 10158 MW; B59146BAA3FD9520 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 6.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 71 PPTTTTTTTTTTTT 85

RESULT 21
O61033      PRELIMINARY;      PRT;      102 AA.
AC
DT 01-AUG-1998 (TREMBlrel. 07, Created)
DT 01-AUG-1998 (TREMBlrel. 07, Last sequence update)
DT 01-MAR-2004 (TREMBlrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-11;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions."
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036422; AAC14232.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
DR NON TER 102
FT SEQUENCE 102 AA; 10605 MW; E55212A8D1297E5A CRC64;

Query Match 3.5%; Score 15; DB 2; Length 102;
Best Local Similarity 100.0%; Pred. No. 6.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 44 PPTTTTTTTTTTTT 58

RESULT 22
Q9XWNO      PRELIMINARY;      PRT;      108 AA.
ID Q9XWNO
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Q9XWNO;
AC
DT 01-NOV-1999 (TREMBlrel. 12, Created)
DT 01-NOV-1999 (TREMBlrel. 12, Last sequence update)
DT 01-JUN-2003 (TREMBlrel. 24, Last annotation update)
DE Hypothetical protein Y43F8C.9.
GN ORFNames=Y43F8C.9;
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RX MEDLINE=99069613; PubMed=9851916;
RA none;
RT "Genome sequence of the nematode C. elegans: A platform for
investigating biology."
RL Science 282:2012-2018(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RA Ainscough R.;
RL Submitted (OCT-1998) to the EMBL/GenBank/DBDJ databases.
DR EMBL; AL032637; CAA21621.1; -.
DR PIR; T26880; T26880.
DR WormBase; WBGene00012831; Y43F8C.9.
DR WormPep; Y43F8C.9; CE21907.
KW Hypothetical protein.
SQ SEQUENCE 108 AA; 11733 MW; F72D37C2B7432602 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 108;
Best Local Similarity 100.0%; Pred. No. 6.8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 48 PPTTTTTTTTTTTT 62

RESULT 23
O61046      PRELIMINARY;      PRT;      115 AA.
ID
AC O61046;
DT 01-AUG-1998 (TREMBlrel. 07, Created)
DT 01-AUG-1998 (TREMBlrel. 07, Last sequence update)
DT 01-MAR-2004 (TREMBlrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCt-7;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions."
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036450; AAC14247.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 115 AA; 11729 MW; 321826F0FDEDEF0E CRC64;

Query Match 3.5%; Score 15; DB 2; Length 115;
Best Local Similarity 100.0%; Pred. No. 7.1e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 43 PPTTTTTTTTTTTT 57
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RESULT 24
Q6WAZ9          PRELIMINARY;      PRT; 121 AA.
ID Q6WAZ9
AC Q6WAZ9;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Noia J.M., Buscaglia C.A., Agüero F., Sanchez D.O.,
  Frasch A.C.C.;
RT "Differential accumulation of mutations localized in particular
  domains of the mucin genes expressed in the vertebrate host stage of
  Trypanosoma cruzi."
RL Mol. Biochem. Parasitol. 133:81-91(2004).
DR ENBL; AY298908; AAQ74639.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 121 AA; 12463 MW; 800A0E88DFE3AE59 CRC64;

Query Match          3.5%; Score 15; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 7.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 44 PPTTTTTTTTTTTT 58

RESULT 25
O15774          PRELIMINARY;      PRT; 122 AA.
ID O15774
AC O15774;
DT 01-JAN-1998 (TrEMBLrel. 05, Created)
DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98324409; PubMed=9662032; DOI=10.1016/S0166-6851(98)00025-5;
RA Freitas-Junior L.H., Briones M.R., Schenkman S.;
RT "Two distinct groups of mucin-like genes are differentially expressed
  in the developmental stages of Trypanosoma cruzi."
RL Mol. Biochem. Parasitol. 93:101-114(1998).
DR ENBL; AF027872; AAC48350.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 122
SQ SEQUENCE 122 AA; 12500 MW; 47CDEF9BD43814FA CRC64;

Query Match          3.5%; Score 15; DB 2; Length 122;
Best Local Similarity 100.0%; Pred. No. 7.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 42 PPTTTTTTTTTTTT 56

RESULT 26
O61025          PRELIMINARY;      PRT; 125 AA.
ID O61025
AC O61025;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
```

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DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=C1-Brenner;
RA MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
  Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
  genes having hypervariable regions."
RL J. Biol. Chem. 273:10843-10850(1998).
DR ENBL; AF036413; AAC14224.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 125 AA; 12894 MW; 2DF1A14AA29A8604 CRC64;

Query Match          3.5%; Score 15; DB 2; Length 125;
Best Local Similarity 100.0%; Pred. No. 7.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 56 PPTTTTTTTTTTTT 70

RESULT 27
O962W4          PRELIMINARY;      PRT; 125 AA.
ID O962W4
AC O962W4;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein MUC-loc6.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=C1-Brenner;
RA Di Noia J.M., Frasch A.C.C.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR ENBL; AF398553; AAK94016.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 125 AA; 12870 MW; 2189F87FA6C71F07 CRC64;

Query Match          3.5%; Score 15; DB 2; Length 125;
Best Local Similarity 100.0%; Pred. No. 7.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 56 PPTTTTTTTTTTTT 70

RESULT 28
O61021          PRELIMINARY;      PRT; 126 AA.
ID O61021
AC O61021;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
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RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RA D'Orso I., Di Noia J.M.;
RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF036409; AAC14220.2; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 126 AA; 13023 MW; F3858008D3C768A1 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 126;
Best Local Similarity 100.0%; Pred. No. 7.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTPTTTTPTTTT 335
DB 55 PPTTTTPTTTTPTTTT 69

RESULT 29
O61056 PRELIMINARY; PRT; 126 AA.
ID O61056;
AC O61056;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
DE Name=EMUCt-15;
GN Trypanosoma cruzi.
OS Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OC NCBI_TaxID=5693;
OX [1]
RN SEQUENCE FROM N.A.
RP STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RA D'Orso I., Di Noia J.M.;
RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF036463; AAC14257.2; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 126 AA; 13049 MW; F399EC78D3C768A1 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 126;
Best Local Similarity 100.0%; Pred. No. 7.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTPTTTTPTTTT 335
DB 55 PPTTTTPTTTTPTTTT 69

RESULT 30
P90603 PRELIMINARY; PRT; 128 AA.
ID P90603;
AC P90603;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE MUC.CL-1.
GN Name=MUC.CL-1;
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OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=97113006; PubMed=8943259; DOI=10.1074/jbc.271.50.32078;
RA Di Noia J.M., Pollevick G.D., Xavier M.T., Previato J.O.,
RA Mendoca-Previato L., Sanchez D.O., Frasch A.C.;
RT "High diversity in mucin genes and mucin molecules in Trypanosoma
RT cruzi.";
RL J. Biol. Chem. 271:32078-32083(1996).
DR EMBL; U62530; AAC47402.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 128 AA; 13207 MW; 30ACB7C3F8E633B4 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 128;
Best Local Similarity 100.0%; Pred. No. 7.8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTPTTTTPTTTT 335
DB 55 PPTTTTPTTTTPTTTT 69

RESULT 31
O61037 PRELIMINARY; PRT; 139 AA.
ID O61037;
AC O61037;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
DE Name=EMUCe-37p20;
GN Trypanosoma cruzi.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036427; AAC14349.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14311 MW; 9236BB31B8599287 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTPTTTTPTTTT 335
DB 70 PPTTTTPTTTTPTTTT 84

RESULT 32
P90601 PRELIMINARY; PRT; 139 AA.
ID P90601;
AC P90601;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE MUC.Y-1 protein.
DE Name=MUC.Y-1;
GN Trypanosoma cruzi.
OS Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
```

RP SEQUENCE FROM
RC STRAIN=Berk
RX MEDLINE=971111086; PubMed=8943259; DOI=10.1074/jbc.271.50.32078;
RA Di Noia J.M., Pollevick G.D., Xavier M.T., Previano J.O.,
RA Mendoca-Previano L., Sanchez D.O., Frasch A.C.;
RT "High diversity in mucin genes and mucin molecules in Trypanosoma
RT cruzi";
RL J. Biol. Chem. 271:32078-32083(1996).
DR EMBL; U59482; AAC47399.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14395 MW; D7DCECER2FF8A26B CRC64;

Query Match 3.5%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 PPTTTTTTTTTTTTTT 335
Db 68 PPTTTTTTTTTTTTTT 82

RESULT 33
Q6WAZ8 PRELIMINARY; PRT; 139 AA.
AC Q6WAZ8
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Noia J.M., Buscaglia C.A., Agüero F., Sanchez D.O.,
RA Frasch A.C.C.;
RT "Differential accumulation of mutations localized in particular
RT domains of the mucin genes expressed in the vertebrate host stage of
RT Trypanosoma cruzi";
RL Mol. Biochem. Parasitol. 133:81-91(2004).
DR EMBL; AY298908; AA074640.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14277 MW; 79A799908014DD21 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 PPTTTTTTTTTTTTTT 335
Db 71 PPTTTTTTTTTTTTTT 85

RESULT 34
Q962W5 PRELIMINARY; PRT; 140 AA.
AC Q962W5
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein MUC-loc5.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=C1-Brenner;
RA Di Noia J.M., Frasch A.C.C.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF398552; AAK94015.1; -;

DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 140 AA; 14343 MW; 5CC154418F2A58CA CRC64;

Query Match 3.5%; Score 15; DB 2; Length 140;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 PPTTTTTTTTTTTTTT 335
Db 72 PPTTTTTTTTTTTTTT 86

RESULT 35
O1S776 PRELIMINARY; PRT; 143 AA.
AC O1S776
DT 01-JAN-1998 (TrEMBLrel. 05, Created)
DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=98324409; PubMed=9662032; DOI=10.1016/S0166-6851(98)00025-5;
RA Freitas-Junior L.H., Briones M.R., Schenkman S.;
RT "Two distinct groups of mucin-like genes are differentially expressed
RT in the developmental stages of Trypanosoma cruzi";
RL Mol. Biochem. Parasitol. 93:101-114(1998).
DR EMBL; AF027874; AAC48352.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 143 143
SQ SEQUENCE 143 AA; 14610 MW; 6AB6E7B7FA85F59B CRC64;

Query Match 3.5%; Score 15; DB 2; Length 143;
Best Local Similarity 100.0%; Pred. No. 8.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 PPTTTTTTTTTTTTTT 335
Db 74 PPTTTTTTTTTTTTTT 88

RESULT 36
O61019 PRELIMINARY; PRT; 148 AA.
AC O61019
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-1;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT genes having hypervariable regions";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036407; AAC14218.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 148 AA; 15212 MW; ABF2E02CF13EA059 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 148;

Best Local Similarity 100.0%; Pred. No. 8.8e-06; Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
|||||
Db 68 PPTTTTTTTTTTTT 82

RESULT 37

Q6WB00 PRELIMINARY; PRT; 148 AA.
AC Q6WB00; (Created)
DT 05-JUL-2004 (T-EMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (T-EMBLrel. 27, Last sequence update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Noia J.M., Buscaglia C.A., Agüero F., Sanchez D.O., Frasch A.C.C.;
RA "Differential accumulation of mutations localized in particular RT domains of the mucin genes expressed in the vertebrate host stage of Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 133:81-91(2004).
DR EMBL; A2298908; AAQ74638.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 148 AA; 15203 MW; C7F2E02CF13554E6 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 148;
Best Local Similarity 100.0%; Pred. No. 8.8e-06; Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
|||||
Db 68 PPTTTTTTTTTTTT 82

RESULT 38

Q25334 PRELIMINARY; PRT; 327 AA.
AC Q25334; (Created)
DT 01-NOV-1996 (T-EMBLrel. 01, Last sequence update)
DT 01-NOV-1996 (T-EMBLrel. 01, Last sequence update)
DE Surface antigen P2 (Fragment).
OS Leishmania major.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Leishmania.
OX NCBI_TaxID=5664;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=V121;
RX MEDLINE=92105105; PubMed=1761547;
RA Murray P.J., Spithill T.W.;
RA "Variants of a Leishmania surface antigen derived from a multigenic family.";
RL J. Biol. Chem. 266:24477-24484(1991).
DR EMBL; X57135; CAA40414.1; -;
DR PIR; S20074; S20074.
DR InterPro; IPR009030; Grow_fac_recept.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR007090; LRR_plant.
DR Pfam; PF00560; LRR 1; 3.
DR SMART; SM00181; EGF; 1.
FT NON TER 1
SQ SEQUENCE 327 AA; 34229 MW; 2571B35B6577E715 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 327;

Best Local Similarity 100.0%; Pred. No. 1.7e-05; Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
|||||
Db 183 PPTTTTTTTTTTTT 197

RESULT 39

Q86A81 PRELIMINARY; PRT; 648 AA.
AC Q86A81; (Created)
DT 01-JUN-2003 (T-EMBLrel. 24, Last sequence update)
DT 01-JUN-2003 (T-EMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (T-EMBLrel. 26, Last annotation update)
DE Similar to Mus musculus (Mouse). 12 days embryo head cDNA, RIKEN full-length enriched library, clone:300008H23 product:hypothetical Acyl-CoA dehydrogenase/Glutamic acid-rich region containing protein, full insert sequence.
DE Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P., Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K., Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RA "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RX STRAIN=AX4;
RA Baumgart C.;
RL EMBL; AC116986; AAO51856.1; -;
DR DictyBase; DDB0168226; JC2V2 0.00892.
DR InterPro; IPR008654; IWS1_C_1.
DR Pfam; PF05909; IWS1_C_1.
KW Hypothetical protein.
SQ SEQUENCE 648 AA; 73372 MW; 2879FE40FCD76D3E CRC64;

Query Match 3.5%; Score 15; DB 2; Length 648;
Best Local Similarity 100.0%; Pred. No. 3.1e-05; Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 320 PPTTTTTTTTTTTT 334
|||||
Db 130 PPTTTTTTTTTTTT 144

RESULT 40

Q86AGO PRELIMINARY; PRT; 1015 AA.
AC Q86AGO; (Created)
DT 01-JUN-2003 (T-EMBLrel. 24, Last sequence update)
DT 01-JUN-2003 (T-EMBLrel. 24, Last sequence update)
DE Similar to Dictyostelium discoideum (Slime mold). Histidine kinase DhkE.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P., Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K., Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RA "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).


```

[2]
RN  SEQUENCE FROM N.A.
RP  STRAIN=AX4;
RC  Baumgart C.;
RL  Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR  EMBL; AC115594; AA051537.1; -.
DR  GO; GO:0016301; P:Kinase activity; IEA.
KW  Kinase.
SQ  SEQUENCE 1015 AA; 116816 MW; 58CF6693543381A8 CRC64;

Query Match      3.5%; Score 15; DB 2; Length 1015;
Best Local Similarity 100.0%; Pred. No. 4.6e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  320 PPPTTTTTTTTTTTT 334
DB  552 PPPTTTTTTTTTTTT 566

RESULT 41
Q6TUI3
ID  Q6TUI3 PRELIMINARY; PRT; 58 AA.
AC  Q6TUI3;
DT  05-JUL-2004 (TrEMBLrel. 27, Created)
DT  05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT  05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE  LRG000061.
OS  Rattus norvegicus (Rat).
OC  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX  NCBI_TaxID=10116;
[1]
RN  SEQUENCE FROM N.A.
RP  STRAIN=Sprague-Dawley;
RA  Xu C.S.; Chang C.F.; Han H.P.; Wang G.P.; Chai L.Q.; Yuan J.Y.;
RA  Yang K.J.; Zhao L.F.; Ma H.; Wang L.; Wang S.F.; Xing X.K.; Shen G.M.;
RA  Shi J.B.; Rahman S.; Wang Q.N.; Zhang J.B.;
RL  Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.
DR  EMBL; AY387047; AAQ91017.1; -.
SQ  SEQUENCE 58 AA; 6466 MW; DE36599EB327F47 CRC64;

Query Match      3.3%; Score 14; DB 2; Length 58;
Best Local Similarity 100.0%; Pred. No. 3.7e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  323 TTTTTTTTTTTTTT 336
DB  34 TTTTTTTTTTTT 47

RESULT 42
O61050
ID  O61050 PRELIMINARY; PRT; 107 AA.
AC  O61050;
DT  01-AUG-1998 (TrEMBLrel. 07, Created)
DT  01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT  01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE  Mucin-like protein (Fragment).
GN  Name=EMUCT-9;
OS  Trypanosoma cruzi.
OC  Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX  NCBI_TaxID=5693;
[1]
RN  SEQUENCE FROM N.A.
RP  STRAIN=Cl-Brenner;
RX  MEDLINE=96225151; PubMed=955557; DOI=10.1074/jbc.273.18.10843;
RA  Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT  "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT  genes having hypervariable regions.";
RL  J. Biol. Chem. 273:10843-10850(1998).
DR  EMBL; AF036454; AAC14251.1; -.
DR  InterPro; IPR000458; Tryp_mucin.
DR  Pfam; PF01456; Mucin; 1.

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FT  NON TER 107 107
SQ  SEQUENCE 107 AA; 10986 MW; 26E2947FD6EB06D2 CRC64;

Query Match      3.3%; Score 14; DB 2; Length 107;
Best Local Similarity 100.0%; Pred. No. 6.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  321 PPPTTTTTTTTTTTT 334
DB  53 PPPTTTTTTTTTTTT 66

RESULT 43
Q962W6
ID  Q962W6 PRELIMINARY; PRT; 216 AA.
AC  Q962W6;
DT  01-DEC-2001 (TrEMBLrel. 19, Created)
DT  01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT  01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE  Mucin-like protein MUC-loc2.
OS  Trypanosoma cruzi.
OC  Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX  NCBI_TaxID=5693;
[1]
RN  SEQUENCE FROM N.A.
RP  STRAIN=Cl-Brenner;
RA  Di Noia J.M., Frasch A.C.C.;
RL  Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR  EMBL; AF398551; AAK94014.1; -.
DR  InterPro; IPR000458; Tryp_mucin.
DR  Pfam; PF01456; Mucin; 1.
SQ  SEQUENCE 216 AA; 21815 MW; 01C85738541BB6C6 CRC64;

Query Match      3.3%; Score 14; DB 2; Length 216;
Best Local Similarity 100.0%; Pred. No. 0.00011;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  322 PPPTTTTTTTTTTTT 335
DB  158 PPPTTTTTTTTTTTT 171

RESULT 44
YQOB CAEL
ID  YQOB CAEL STANDARD; PRT; 304 AA.
AC  Q09300;
DT  01-NOV-1997 (Rel. 35, Created)
DT  01-NOV-1997 (Rel. 35, Last sequence update)
DT  25-OCT-2004 (Rel. 45, Last annotation update)
DE  Hypothetical protein EED8.11 in chromosome II precursor.
GN  ORFNames=EED8.11;
OS  Caenorhabditis elegans.
OC  Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC  Rhabditidae; Peloderinae; Caenorhabditis.
OX  NCBI_TaxID=6239;
[1]
RN  SEQUENCE FROM N.A.
RP  STRAIN=Bristol N2;
RX  MEDLINE=99069613; PubMed=9851916;
RG  The C. elegans sequencing consortium;
RT  "Genome sequence of the nematode C. elegans: a platform for
RT  investigating biology.";
RL  Science 282:2012-2018(1998).
CC  -1- SIMILARITY: Some, to C.elegans R13F6.2 and R13F6.8.
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DR EMBL; U23484; AAC46771.1; -.
DR PIR; T15922; T15922.
DR WormBase; WBGene00017139; EED8.11.
DR WormPep; EED8.11; CE01884.
DR InterPro; IPR001304; Lectin_C.
DR SMART; SM00034; CLECT; 1.
KW Hypothetical protein; Signal.
FT SIGNAL 1 19 Potential.
FT CHAIN 20 304 Hypothetical protein EED8.11.
FT DOMAIN 64 92 Poly-Thr.
SQ SEQUENCE 304 AA; 32982 MW; 60C223B88F534151 CRC64;

Query Match 3.3%; Score 14; DB 1; Length 304;
Best Local Similarity 100.0%; Pred. No. 0.00015;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 67 PTTTTTTTTTTTTT 80

RESULT 45
Q8IMS9 PRELIMINARY; PRT; 341 AA.
AC Q8IMS9;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DE Q8IMS9-PA.
GN ORFNames=CG31439;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]

SEQUENCE FROM N.A.
RP MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Fostler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.C., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleeb J.M.,
RA Palazzolo M., Pittman G.S., Pan S.R., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wassarman D.A., Weinstein G.M., Weissenbach J.,
RA Williams S.M., Woodgett, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
RA Yen R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu X., Smith H.O.,

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RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195(2000).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426065; PubMed=12537568;
RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R.,
RA Pacleeb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Svirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstein G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RT "Finishing a whole-genome shotgun: Release 3 of the Drosophila
RT melanogaster euchromatic genome sequence.";
RL Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426070; PubMed=12537573;
RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Svirskas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RT "The transposable elements of the Drosophila melanogaster euchromatin:
RT a genomics perspective.";
RL Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426069; PubMed=12537572;
RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaminker J.S., Milburn G.H., Prochuk S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman S.P.,
RA Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RT "Annotation of the Drosophila melanogaster euchromatic genome: a
RT systematic review.";
RL Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
RN [5]
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RN [6]
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AS003751; AAN14054.1; -.
DR FlyBase; Fggn0051439; CG31439.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008061; F:chitin binding; IEA.
DR GO; GO:0006030; P:chitin metabolism; IEA.
DR InterPro; IPR002557; Chitin_bind_Pera.
DR InterPro; IPR002125; dCMP/cyt_deam.
DR Pfam; PF01607; CEM_14; 1.
DR SMART; SM00494; ChtBD2; 1.
DR PROSITE; PS00940; CHIT_BIND_II; 1.
DR PROSITE; PS00903; CYT_DCMP_DEAMINASES; UNKNOWN 1.
SQ SEQUENCE 341 AA; 38627 MW; A935A06377885A15 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 341;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 170 PTTTTTTTTTTTTT 183

RESULT 46
Q7Q1R0 PRELIMINARY; PRT; 350 AA.
AC Q7Q1R0;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)

```

DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE AGCP8129 (Fragment).
 GN Name=agCG53193; ORFNames=ENSANGG00000007781;
 OS Anopheles gambiae str. PEST.
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.
 OX NCBI_TaxID=180454;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=PEST;
 RA Anopheles Genome Sequencing Consortium;
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
 CC -!- CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL; AAAB01008980; EAA14126.1; -.
 DR GO; GO:0016020; C:membrane; IEA.
 DR InterPro; IPR002000; LAMP.
 DR PRINTS; PR00336; LYSASSOCTDMP.
 DR PROSITE; PS00310; LAMP_1; UNKNOWN_1.
 FT NON_TER 1
 SQ SEQUENCE 350 AA; 37565 MW; F4765CEP710FA9A0 CRC64;

 Query Match 3.3%; Score 14; DB 2; Length 350;
 Best Local Similarity 100.0%; Pred. No. 0.00017;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

 Qy 322 PTTTTTTTTTTTTT 335
 Db 79 PTTTTTTTTTTTTT 92

 RESULT 47
 Q7P221
 ID Q7P221 PRELIMINARY; PRT; 356 AA.
 AC Q7P221;
 DT 01-MAR-2004 (TrEMBLrel. 26, Created)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE AGCP9900 (Fragment).
 GN Name=agCG52059; ORFNames=ENSANGG00000015451;
 OS Anopheles gambiae str. PEST.
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.
 OX NCBI_TaxID=180454;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=PEST;
 RA Anopheles Genome Sequencing Consortium;
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
 CC -!- CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL; AAAB01008986; EAA00798.1; -.
 FT NON_TER 1
 FT NON_TER 356
 SQ SEQUENCE 356 AA; 39404 MW; C51B095A700DEC22 CRC64;

 Query Match 3.3%; Score 14; DB 2; Length 356;
 Best Local Similarity 100.0%; Pred. No. 0.00017;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

 Qy 322 PTTTTTTTTTTTTT 335
 Db 316 PTTTTTTTTTTTTT 329

 RESULT 48
 Q7S2P4
 ID Q7S2P4 PRELIMINARY; PRT; 364 AA.
 AC Q7S2P4;
 DT 01-MAR-2004 (TrEMBLrel. 26, Created)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)

DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Hypothetical protein.
 GN Name=NCU09343.1;
 OS Neurospora crassa.
 OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
 OC Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
 OX NCBI_TaxID=5141;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=OR74A;
 RA Galagan J.E., Calvo S.E., Borkovich K.A., Selker E.U., Read N.D.,
 RA Jaffe D., FitzHugh W., Ma L.-J., Smirnov S., Purcell S., Rehman B.,
 RA Elkins T., Engels R., Wang S., Nielsen C.B., Butler J., Endrizzi M.,
 RA Qui D., Iankiev P., Pedersen D., Nelson M., Washburne M.,
 RA Selitrenikoff C.P., Kinsey J.A., Braun E.L., Zelter A., Schulte U.,
 RA Kothe G.O., Jedd G., Mewes W., Staben C., Marcotte E., Greenberg D.,
 RA Roy A., Foley K., Naylor J., Thomann N., Barrett R., Gnerre S.,
 RA Kamal M., Kamvysselis M., Mauceli E., Bielek C., Rudd S., Frisman D.,
 RA Krystofova S., Rasmussen C., Metznerberg R.L., Perkins D.D., Kroken S.,
 RA Cogoni C., Macino G., Catchside D., Li W., Pratt R.J., Osmari S.A.,
 RA Desouza C.C., Glass L., Orbach M.J., Berglund J., Voelker R.,
 RA Yarden O., Plamann M., Seiler S., Dunlap J., Radford A., Aramayo R.,
 RA Natvig D.O., Alex L.A., Mannhaupt G., Ebbole D.J., Freitag M.,
 RA Paulsen I., Sachs M.S., Lander E.S., Nusbaum C., Birren B.,
 RT "The Genome Sequence of the Filamentous Fungus Neurospora crassa.";
 RL Nature 0:0-0(2003).
 CC -!- CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL; AABX01000420; EAA29686.1; -.
 DR InterPro; IPR008547; DUF829.
 DR Pfam; PF05705; DUF829; 1.
 KW Hypothetical protein.
 SQ SEQUENCE 364 AA; 40946 MW; EC1DF588FE543738 CRC64;

 Query Match 3.3%; Score 14; DB 2; Length 364;
 Best Local Similarity 100.0%; Pred. No. 0.00018;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

 Qy 322 PTTTTTTTTTTTTT 335
 Db 38 PTTTTTTTTTTTTT 51

 RESULT 49
 Q869R5
 ID Q869R5 PRELIMINARY; PRT; 365 AA.
 AC Q869R5;
 DT 01-JUN-2003 (TrEMBLrel. 24, Created)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Similar to Dictyostelium discoideum (Slime mold). Histidine
 DE kinase.
 OS Dictyostelium discoideum (Slime mold).
 OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
 OX NCBI_TaxID=44689;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=AX4;
 RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
 RA Gloeckner G., Eichinger L., Szafranski K., Pachabati J., Dear P.,
 RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
 RA Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
 RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
 RL Nature 418:79-85(2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=AX4;
 RA Baumgart C.;
 RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL; ACL16957; AAC52509.1; -.
 DR GO; GO:0016301; F:kinase activity; IEA.
 KW Kinase.

```
SQ SEQUENCE 365 AA; 39409 MW; 132DEB0383959196 CRC64;
Query Match 3.3%; Score 14; DB 2; Length 365;
Best Local Similarity 100.0%; Pred. No. 0.00018;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
DB 266 PTTTTTTTTTTTTT 279

RESULT 50
Q70956
ID Q70956 PRELIMINARY; PRT; 445 AA.
AC Q70956;
DT 01-MAR-2004 (T-EMBLrel. 26, Created)
DT 01-MAR-2004 (T-EMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (T-EMBLrel. 26, Last annotation update)
DE AGCP4397 (Fragment).
GN Name=agCG50324; ORFNames=ENSANGG00000010153;
OS Anopheles gambiae str. PEST.
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.
OX NCBI_TaxID=180454;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=PEST;
RA Anopheles Genome Sequencing Consortium;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: Belongs to peptidase family S1.
CC -1- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AABA01008905; EAA09700.1; -.
DR HSP, P08709; 13BU.
DR GO; GO:0004263; F:chymotrypsin activity; IEA.
DR GO; GO:0008233; F:peptidase activity; IEA.
DR GO; GO:0004295; F:trypsin activity; IEA.
DR GO; GO:0006508; F:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001254; Peptidase_S1.
DR InterPro; IPR001314; Peptidase_S1A.
DR InterPro; IPR009003; Pept_Ser_Cys.
DR Pfam; PF00089; Trypsin; 1.
DR PRINTS; PR00722; CHYMOTRYPSIN.
DR PROSITE; PS00240; TRYPSIN_DOM; 1.
DR PROSITE; PS00134; TRYPSIN_HIS; UNKNOWN_1.
KW Hydrolase; Protease; Serine protease.
FT NON_TER 1
SQ SEQUENCE 445 AA; 48897 MW; 48A34474F5414364 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 445;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
DB 125 PTTTTTTTTTTTTT 138

RESULT 51
WR33 ARATH
ID WR33 ARATH STANDARD; PRT; 512 AA.
AC Q8S8P5;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 03-JUL-2004 (Rel. 44, Last annotation update)
DE Probable WRKY transcription factor 33 (WRKY DNA-binding protein 33).
GN Name=WRKY33; OrderedLocustNames=At2g38470; ORFNames=TI9C21.4;
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; rosids;
OC euroids II; Brassicales; Brassicaceae; Arabidopsis.
OX NCBI_TaxID=3702;

RN RP SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia; TISSUE=Flower;
RA Lippok B., Somsich I.E.;
RT "Arabidopsis thaliana transcription factor WRKY33.";
RL Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.
RN RP SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia;
RX MEDLINE=20083487; PubMed=10617197; DOI=10.1038/45471;
RA Lin X., Kaul S., Rounsley S.D., Shea T.P., Benito M.-I., Town C.D.,
RA Fujii C.Y., Mason T.M., Bowman C.L., Barnstead M.E., Feldblum T.V.,
RA Buell C.R., Ketchum K.A., Lee J.J., Ranning C.M., Koo H.L.,
RA Moffat K.S., Cronin L.A., Shen M., Pai G., Van Aken S., Umayam L.,
RA Tallon L.J., Gill J.E., Adams M.D., Carrera A.J., Creasy T.H.,
RA Goodman H.M., Somerville C.R., Copenhaver G.P., Preuss D.,
RA Niernan W.C., White O., Eisen J.A., Salzberg S.L., Fraser C.M.,
RA Venter J.C.;
RT "Sequence and analysis of chromosome 2 of the plant Arabidopsis
RT thaliana.";
RL Nature 402:761-768(1999).
CC -1- FUNCTION: Transcription factor. Interacts specifically with the W
CC box (5'-(T)TGC(C/T)-3'), a frequently occurring elicitor-
CC responsive cis-acting element (By similarity).
CC -1- SUBCELLULAR LOCATION: Nuclear (Probable).
CC -1- SIMILARITY: Belongs to the WRKY group I family.
CC -1- SIMILARITY: Contains 2 WRKY domains.
CC -----
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CC -----
DR EMBL; AF509499; AAM34736.1; -.
DR EMBL; AC004683; AAM14994.1; -.
DR PIR; T02498; T02498.
DR InterPro; IPR003657; WRKY.
DR Pfam; PF03106; WRKY; 2.
DR PROSITE; PS0811; WRKY; 2.
DR DNA-BINDING; Nuclear protein; Repeat; Transcription regulation.
KW DNA-BINDING; Nuclear protein; Repeat; Transcription regulation.
FT DOMAIN 123 135 Thr-rich.
FT DNA_BIND 171 235 WRKY 1.
FT DNA_BIND 349 414 WRKY 2.
FT DOMAIN 461 481 Asn-rich.
SQ SEQUENCE 512 AA; 56457 MW; 8F19CBE41BC18662 CRC64;

Query Match 3.3%; Score 14; DB 1; Length 512;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
DB 122 PTTTTTTTTTTTTT 135

RESULT 52
IAIC DIACA
ID IAIC DIACA STANDARD; PRT; 517 AA.
AC P27486;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE 1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) (ACC
GN Name=ACS2; Synonyms=CARACC;
OS Dianthus caryophyllus (Carnation) (Clove pink).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
OC Caryophyllales; Caryophyllaceae; Dianthus.
OX NCBI_TaxID=3570;
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RN  SEQUENCE FROM N.A.
RP  TISSUE=Petal;
RX  MEDLINE=92119258; PubMed=1731995;
RA  Park K.Y., Drory A., Woodson W.R.;
RR  "Molecular cloning of an 1-aminocyclopropane-1-carboxylate synthase
RT  from senescing carnation flower petals.";
RL  Plant Mol. Biol. 18:377-386(1992)
CC  -1- FUNCTION: Catalyzes the formation of 1-aminocyclopropane-1-
CC  carboxylate, a direct precursor of ethylene in higher plants.
CC  -1- CATALYTIC ACTIVITY: S-adenosyl-L-methionine = 1-aminocyclopropane-
CC  1-carboxylate + methylthioadenosine.
CC  -1- COFACTOR: Pyridoxal phosphate.
CC  -1- PATHWAY: Ethylene biosynthesis; first (rate-limiting) step.
CC  -1- SUBUNIT: Homodimer.
CC  -1- SIMILARITY: Belongs to the class-I pyridoxal-phosphate-dependent
CC  aminotransferase family.
CC  -----
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CC  entities requires a license agreement (See http://www.isb-sib.ch/announce/
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CC  -----
DR  EMBL; M66619; AAA33275.1; -.
DR  PIR; S19252; S19252.
DR  HSSP; P18485; 1IAX.
DR  InterPro; IPR001176; ACC synthase.
DR  InterPro; IPR004839; Aminotrans I/II.
DR  InterPro; IPR004838; NHtransf_1_BS.
DR  Pfam; PF00155; Aminotran_1_2; 1.
DR  PRINTS; PR00753; ACCSYNTHASE.
DR  PROSITE; PS00105; AA_TRANSFER_CLASS_1; 1.
KW  Ethylene biosynthesis; Fruit ripening; Lyase; Multigene family;
KW  Pyridoxal phosphate.
FT  BINDING 277 277 Pyridoxal phosphate (By similarity).
FT  DOMAIN 453 470 Poly-Thr.
SQ  SEQUENCE 517 AA; 58057 MW; C31BA10732E940AE CRC64;

Query Match 3.3%; Score 14; DB 1; Length 517;
Best Local Similarity 100.0%; Pred. No. 0.00024; Mismatches 0; Indels 0; Gaps 0;
Matches 14; Conservative 0;

QY 323 TTTTITTTTTTTTTI 336
DB 458 TTTTITTTTTTTTTI 471

RESULT 53
Q43753 PRELIMINARY; PRT; 518 AA.
AC Q43753;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE 1-aminocyclopropane 1-carboxylate synthase (EC 4.4.1.14).
OS Dianthus carvophyllus (Carnation) (Clove pink).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
OC Caryophyllales; Caryophyllaceae; Dianthus.
OX NCBI_TaxID=3570;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Petal;
RA Michael M.Z.;
RL Submitted (DEC-1992) to the EMBL/GenBank/DBJ databases.
DR EMBL; Z18952; CAA79477.1; -.
DR PIR; S31442; S31442.
DR HSSP; P18485; 1IAX.
DR GO; GO:0016847; F:1-aminocyclopropane-1-carboxylate synthase . . .; IEA.
DR GO; GO:0016829; F:lyase activity; IEA.

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DR  GO; GO:0008483; F:transaminase activity; IEA.
DR  GO; GO:0009058; P:biosynthesis; IEA.
DR  InterPro; IPR001176; ACC synthase.
DR  InterPro; IPR004839; Aminotrans I/II.
DR  InterPro; IPR004838; NHtransf_1_BS.
DR  Pfam; PF00155; Aminotran_1_2; 1.
DR  PRINTS; PR00753; ACCSYNTHASE.
DR  PROSITE; PS00105; AA_TRANSFER_CLASS_1; 1.
KW  Lyase.
SQ  SEQUENCE 518 AA; 58003 MW; EF8B8BC8F03A493E CRC64;

Query Match 3.3%; Score 14; DB 2; Length 518;
Best Local Similarity 100.0%; Pred. No. 0.00024; Mismatches 0; Indels 0; Gaps 0;
Matches 14; Conservative 0;

QY 323 TTTTITTTTTTTTTI 336
DB 459 TTTTITTTTTTTTTI 472

RESULT 54
Q7YYV0 PRELIMINARY; PRT; 667 AA.
AC Q7YYV0;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Hypothetical protein.
DE ORFNames=1MB.826;
OS Cryptosporidium parvum.
OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;
OC Cryptosporidiidae; Cryptosporidium.
OX NCBI_TaxID=5807;
RN [1]
RP SEQUENCE FROM N.A.
RA Bankier A.T., Spriggs H.F., Fartmann B., Konfortov B.A., Madera M.,
RA Vogel C., Teichmann S.A., Ivens A., Dear P.H.;
RT "Integrated mapping, chromosomal sequencing and sequence analysis of
RL Genome Res. 0:0-0(2003).
DR EMBL; BX538353; CAD98350.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
KW Hypothetical protein.
SQ  SEQUENCE 667 AA; 73337 MW; 92F583112C839992 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 667;
Best Local Similarity 100.0%; Pred. No. 0.0003; Mismatches 0; Indels 0; Gaps 0;
Matches 14; Conservative 0;

QY 322 PTTTITTTTTTTTTT 335
DB 541 PTTTITTTTTTTTTT 554

RESULT 55
Q8UIH5 PRELIMINARY; PRT; 717 AA.
AC Q8UIH5;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Putative chitinase.
OS OrderedLocusNames=PF1233;
GN Pyrococcus furiosus.
OC Archaea; Euryarchaeota; Thermococci; Thermococcaceae;
OC Pyrococcus.
OX NCBI_TaxID=2261;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Vc1 / DSM 3638 / ATCC 43587 / JCM 8422;
RA Weiss R.B., Dunn D.M., Robb F.T., Brown J.R.;
RT "The complete sequence of the Pyrococcus furiosus genome."

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RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AE010230; AAL81357.1; -.
DR HSSP; Q13231; 11G2.
DR GO; GO:0016787; F:hydrolase activity; IEA.
DR GO; GO:0004553; F:hydrolase activity; hydrolyzing O-glycosyl . . .; IEA.
DR GO; GO:0005975; P:carbohydrate metabolism; IEA.
DR GO; GO:0008152; P:metabolism; IEA.
DR PFam; PF00553; CBM_2; 1.
DR PFam; PF00704; Glyco_hydro_18; 1.
DR SMART; SM00637; CBD_II; 1.
KW Complete proteome.
SQ SEQUENCE 717 AA; 78635 MW; FBCB55B9C850E3B8 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 717;
Best Local Similarity 100.0%; Pred. No. 0.00032;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTNTTTTTTTTTT 335
Db |||||TTTTTTTTTT

RESULT 56
Q9V515 PRELIMINARY; PRT; 746 AA.
AC
Q9V515;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE C98181-PA.
GN ORFNames=C98181;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
SEQUENCE FROM N.A.
RP MEDLINE=20196006; PubMed=107311132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galie R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazee R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Abril J.F., Aghayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadien E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Folsler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacieb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Klamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wassarman D.A., Weinstein G.M., Weissenbach J.,
RA Williams S.M., Woodagef, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,

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RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195(2000).
RN [2]
SEQUENCE FROM N.A.
RP MEDLINE=22426065; PubMed=12537568;
RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R.,
RA Pacieb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Svirskas R., Taber P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstein G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RT "Finishing a whole-genome shotgun: Release 3 of the Drosophila
RT melanogaster euchromatic genome sequence.";
RL Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RN [3]
SEQUENCE FROM N.A.
RP MEDLINE=22426070; PubMed=12537573;
RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Svirskas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RT "The transposable elements of the Drosophila melanogaster euchromatin:
RT a genomics perspective.";
RL Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
RN [4]
SEQUENCE FROM N.A.
RP MEDLINE=22426069; PubMed=12537572;
RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.B.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
RA Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RT "Annotation of the Drosophila melanogaster euchromatic genome: a
RT systematic review.";
RL Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
RN [5]
SEQUENCE FROM N.A.
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RN [6]
SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AE003835; AAF59007.1; -.
DR FlyBase; FBgn0033361; CG8181.
SQ SEQUENCE 746 AA; 78593 MW; FB6F9F8DA3027334 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 746;
Best Local Similarity 100.0%; Pred. No. 0.00033;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTNTTTTTTTTTT 335
Db |||||TTTTTTTTTT 448
325 PTTTNTTTTTTTTTT

RESULT 57
Q23916 PRELIMINARY; PRT; 860 AA.
AC
Q23916;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein mkcA.
GN Name=mkcA;
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyostelida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
SEQUENCE FROM N.A.

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RN [2]
RC SEQUENCE FROM N.A.
RX STRAIN=WS380B;
RA MEDLINE=91172903; PubMed=2077545;
RA Chang A.C.M., Slade M.B., Williams K.L.;
RT "Identification of the origin of replication of the eukaryote
RT Dictyostelium discoideum nuclear plasmid Ddp2.";
RL Plasmid 24:208-217(1990).
DR EMBL; X51478; CAA35843.1; -.
DR DictyBase; DDB0001833; Ddp2-rep.
DR InterPro; IPR007778; Dict_REP.
DR Pfam; PF05086; Dicty_REP; 1.
DR SQ SEQUENCE 887 AA; 100809 MW; 478B68C4E500F470 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 887;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 250 PTTTTTTTTTTTTT 263

RESULT 61
Q23895
ID Q23895 PRELIMINARY; PRT; 889 AA.
AC Q23895;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Trans-acting factor.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=WS380B;
RA MEDLINE=90287164; PubMed=2192261;
RA Leiting B., Lindner I.J., Noegle A.A.;
RT "The extrachromosomal replication of Dictyostelium plasmid Ddp2
RT requires a cis-acting element and a plasmid-encoded trans-acting
RT factor.";
RL Mol. Cell. Biol. 10:3727-3736(1990).
DR EMBL; M55298; AAA33191.1; -.
DR PIR; A35679; A35679.
DR DictyBase; DDB0001833; Ddp2-rep.
DR InterPro; IPR007778; Dict_REP.
DR Pfam; PF05086; Dicty_REP; 1.
DR SQ SEQUENCE 889 AA; 101055 MW; 0C96F120DE30F544 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 889;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 250 PTTTTTTTTTTTTT 263

RESULT 62
Q86A69
ID Q86A69 PRELIMINARY; PRT; 895 AA.
AC Q86A69;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Arabidopsis thaliana (Mouse-ear cress). Hypothetical 79.2
DE kDa protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.

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RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC116986; AAC51907.1; -.
DR DictyBase; DDB0168226; JC2V2 0.00892.
DR InterPro; IPR006768; CwfJ_C1_00892.
DR InterPro; IPR006767; CwfJ_C2.
DR Pfam; PF04677; CwfJ_C1; 1.
DR Pfam; PF04676; CwfJ_C2; 1.
DR KW Hypothetical protein.
DR SQ SEQUENCE 895 AA; 104485 MW; 94895D6A284E3384 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 895;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 434 PTTTTTTTTTTTTT 447

RESULT 63
Q86L47
ID Q86L47 PRELIMINARY; PRT; 937 AA.
AC Q86L47;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC117075; AAC50743.1; -.
DR GO; GO:0005663; C:DNA replication factor C complex; IEA.
DR GO; GO:0005524; F:ATP binding; IEA.
DR GO; GO:0003677; F:DNA binding; IEA.
DR GO; GO:000166; F:nucleotide binding; IEA.
DR GO; GO:0006260; P:DNA replication; IEA.
DR InterPro; IPR003593; AAA_ATPase.
DR InterPro; IPR003959; AAA_ATPase_cent.
DR InterPro; IPR000862; RFC.
DR Pfam; PF00004; AAA; 1.
DR SMART; SM00382; AAA; 1.
DR KW ATP-binding; Hypothetical protein.
DR SQ SEQUENCE 937 AA; 106088 MW; 0AFD6F0123CE2967 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 937;
Best Local Similarity 100.0%; Pred. No. 0.0004;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 323 TTTT TTTT TTTT TTTT TTTT 336
DB 51 TTTT TTTT TTTT TTTT TTTT 64

RESULT 64
O8IP52
ID Q8IP52 PRELIMINARY; PRT; 1166 AA.
AC Q8IP52;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE CG32972-PB (RE16941p).
GN Name=BG:DS01523.2; ORFName=CG32972;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.V., Benos P.V., Bernier B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cline S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferrier A., Fleischmann W.,
RA Fofler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wassarman D.A., Weinstock G.M., Weissbach J.,
RA Williams S.M., Woodagef, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
RA Yen R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster."
RL Science 287:2185-2195 (2000).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426065; PubMed=12537568;
RA Celniker S.E., Wheeler D.A., Krommiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Laverly T., Muzny D.M., Nelson C.R.,
RA Pacieb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Svirskas R., Taber P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstock G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RT "Finishing a whole-genome shotgun: Release 3 of the Drosophila
RT melanogaster euchromatic genome sequence."
RL Genome Biol. 3:RESEARCH0079-RESEARCH0079 (2002).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426070; PubMed=12537573;
RA Kaminker J.S., Bergman C.M., Krommiller B., Carlson J., Svirskas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RT "The transposable elements of the Drosophila melanogaster euchromatin:
RT a genomic perspective."
RL Genome Biol. 3:RESEARCH0084-RESEARCH0084 (2002).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426069; PubMed=12537572;
RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradscky P., Huang Y., Kaminker J.S., Millburn G.H., Prochuk S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
RA Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RT "Annotation of the Drosophila melanogaster euchromatic genome: a
RT systematic review."
RL Genome Biol. 3:RESEARCH0083-RESEARCH0083 (2002).
RN [5]
RP SEQUENCE FROM N.A.
RX SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RN [6]
RP SEQUENCE FROM N.A.
RX SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
RN [7]
RP SEQUENCE FROM N.A.
RX STRAIN=Berkeley;
RA Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
RA Champe M., Chavez C., Dorsett V., Dresnek D., Farfan D., Frise E.,
RA George R., Gonzalez M., Guarin H., Krommiller B., Li P., Liao G.,
RA Miranda A., Mungall C.J., Nunoo J., Paragas V., Park S.,
RA Patel S., Phouanavong S., Wan K., Yu C., Lewis S.E., Rubin G.M.,
RA Celniker S.;
RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
RX EMBL; AE003642; AAN10874.1; -
DR EMBL; BT010014; AAO22483.1; -
DR IntAct; Q8IP52; -
DR FlyBase; FBgn0028905; CG32972.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR000782; BIGH3_FAS1.
DR Pfam; PF02469; Fasciclin; 2.
DR SMART; SM00554; FAS1; 2.
DR PROSITE; PS0213; FAS1; 2.
SQ SEQUENCE 1166 AA; 128893 MW; DD25F816E75F7CF9 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 1166;
Best Local Similarity 100.0%; Pred. No. 0.00048;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTT TTTT TTTT TTTT TTTT 335
DB 407 PTTT TTTT TTTT TTTT TTTT 420

RESULT 65
Q8SSU4
ID Q8SSU4 PRELIMINARY; PRT; 1728 AA.
AC Q8SSU4;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Dictyostelium discoideum (Slime mold). Nucleotide exchange
DE factor RasGFP.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.

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RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RL Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tungal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC116956; AAL92600.1; -.
DR HSSP; P21359; INF1.
DR InterPro; IPR006869; DUF547.
DR InterPro; IPR001547; Glyco_hydro_5.
DR InterPro; IPR001936; RasGAP.
DR InterPro; IPR008936; Rho_GAP.
DR Pfam; PF04784; DUF547; 1.
DR Pfam; PF06616; RasGAP; 1.
DR SMART; SM00323; RasGAP; 1.
DR PROSITE; PS00659; GLYCOSYL_HYDROL_F5; UNKNOWN_1.
DR PROSITE; PS00018; RAS_GTPASE_ACTIV_2; 1.
SQ SEQUENCE 1728 AA; 192334 MW; DBB4425042FF48EA CRC64;

Query Match 3.3%; Score 14; DB 2; Length 1728;
Best Local Similarity 100.0%; Pred. No. 0.00067;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTTTTTTTTTTT 335
Db 151 PTTTTTTTTTTTTT 164

RESULT 66
ID O96503 PRELIMINARY; PRT; 1832 AA.
AC O96503;
DT 01-MAY-1999 (TrEMBLrel. 10, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE GP900.
OS Cryptosporidium parvum.
OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;
OC Cryptosporidiidae; Cryptosporidium.
OC NCBI_TaxID=5807;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=99066935; PubMed=9851610; DOI=10.1016/S0166-6851(98)00119-4;
RA Barnes D.A., Bonnin A., Huang J.X., Goussert L., Wu J., Gut J.,
RA Doyle P., Dubremetz J.F., Ward H., Petersen C.;
RT "A novel multi-domain mucin-like glycoprotein of Cryptosporidium
parvum mediates invasion.";
RL Mol. Biochem. Parasitol. 96:93-110(1998).
DR EMBL; AF068065; AAC98153.1; -.
DR FPR; T31113; T31113.
SQ SEQUENCE 1832 AA; 192653 MW; 590E6ACB16BB50D2 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 1832;
Best Local Similarity 100.0%; Pred. No. 0.0007;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTTTTTTTTTTT 335
Db 373 PTTTTTTTTTTTTT 386

RESULT 67
Q7KT96 PRELIMINARY; PRT; 1853 AA.
AC Q7KT96;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)

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DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE CG32972-PA.
GN ORFNames=CG32972;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballwe R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brotter P.,
RA Burtis K.C., Busam D.A., Butler H., Cadiieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Folsler C., Gabrielian A.E., Gaig N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spiers R., Spradling A.C., Stapleton M., Strong R., Sun E., Wang X.,
RA Swirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wassarman D.A., Weinstock G.M., Weissbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195(2000).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426065; PubMed=12537568;
RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Laverly T., Muzny D.M., Nelson C.R.,
RA Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Swirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstock R., Tabor P.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RT "Finishing a whole-genome shotgun: Release 3 of the Drosophila
melanogaster euchromatic genome sequence.";
RL Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426070; PubMed=12537573;
RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Swirskas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RT "The transposable elements of the Drosophila melanogaster euchromatin:
a genomics perspective.";
RL Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426069; PubMed=12537572;

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RA Miera S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaninker J.S., Millburn G.H., Prochnik S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
RA Bettencourt B.R., Ceiniker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.,
RT "Annotation of the Drosophila melanogaster euchromatic genome: a
RT systematic review",
RL Genome Biol. 3:RESEARCH0083-RESEARCH0083 (2002).
RN [5]
RN SEQUENCE FROM N.A.
RP FlyBase;
RG Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RL [6]
RN SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AE003642; AAS64704.1; -;
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR000782; BIGH3_FAS1.
DR Pfam; PF02469; Fasciclin; 2.
DR SMART; SM00554; FAS1; 2.
DR PROSITE; PS02113; FAS1; 2.
SQ SEQUENCE 1853 AA; 201677 MW; 518684872828D53F CRC64;
Query Match 3.3%; Score 14; DB 2; Length 1853;
Best Local Similarity 100.0%; Pred. No. 0.00071;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 322 PTTTTTTTTTTTTT 335
Db 407 PTTTTTTTTTTTTT 420
RESULT 68
Q9NKC9 PRELIMINARY; PRT; 1893 AA.
ID Q9NKC9
AC Q9NKC9
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein BG:DS01523.2
GN Name:BG:DS01523.2; ORFNames=CG32972;
OS Drosophila melanogaster (fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RN SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=99403001; PubMed=10471707;
RA Ashburner M., Miera S., Roote J., Lewis S.E., Blazej R., Davis T.,
RA Doyle C., Galle R., George R., Harris N., Hartzell G., Harvey D.,
RA Hong L., Houston K., Hoskins R., Johnson G., Martin C., Moshrefi A.,
RA Palazzolo M., Reese M.G., Spradling A., Tsang G., Wan K., Whitelaw K.,
RA Celnikier S., Rubin G.M.,
RT "An exploration of the sequence of a 2.9-Mb region of the genome of
RT Drosophila melanogaster: the Adh region.",
RL Genetics 153:179-219 (1999).
RN [2]
RN SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=99403001; PubMed=10471707;
RA Ashburner M., Miera S., Roote J., Lewis S.E., Blazej R.G.,
RA Butenhoff C., Champe M., Chavez C., Chew M., Ciesiolka L., Doyle C.M.,
RA Farfan D.E., Galle R., George R.A., Harris N.L., Hoskins R.A.,
RA Houston K.A., Hummasti S.R., Karra K., Kearney L., Kim B., Lee B.,
RA Lewis S., Li P., Lomtan M.A., Mazda P., Moshrefi A.R., Moshrefi M.,
RA Nixon K., Pacleb J.M., Park S., Pfeiffer B., Poon L., Sequeira A.,
RA Sethi H., Snir E., Svirskaas R.R., Wan K.H., Weinburg T., Zhang R.,
RA Zieran L.L., Rubin G.M.,
RT Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RN [3]

DR EMBL; AE003409; AAF44859.1; -;
DR FlyBase; FBgn0028905; CG32972.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR000782; BIGH3_FAS1.
DR InterPro; IPR011009; Kinase_like.
DR Pfam; PF02469; Fasciclin; 2.
DR SMART; SM00554; FAS1; 2.
DR PROSITE; PS02113; FAS1; 2.
RW Hypothetical protein.
SQ SEQUENCE 1893 AA; 206483 MW; 2C3152610B858A4D CRC64;
Query Match 3.3%; Score 14; DB 2; Length 1893;
Best Local Similarity 100.0%; Pred. No. 0.00072;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 322 PTTTTTTTTTTTTT 335
Db 447 PTTTTTTTTTTTTT 460
RESULT 69
Q86HN4 PRELIMINARY; PRT; 2208 AA.
ID Q86HN4
AC Q86HN4
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RN SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachbat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzner M., Rosenthal A., Noegel A.A.,
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.",
RL Nature 418:79-85 (2002).
RN [2]
RN SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.,
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: Belongs to the ubiquitin-conjugating enzyme family.
DR EMBL; AC116957; AAO52538.1; -;
DR HSP; P51966; 1C4Z.
DR GO; GO:0004840; F:ubiquitin conjugating enzyme activity; IEA.
DR GO; GO:0006512; P:ubiquitin cycle; IEA.
DR InterPro; IPR002083; MATH.
DR InterPro; IPR008974; Traf like.
DR InterPro; IPR000608; UBQ_conjugat.
DR Pfam; PF00917; MATH; 4.
DR Pfam; PF00179; UQ_con; 1.
DR ProDom; PD000461; UBQ_conjugat; 1.
DR SMART; SM00061; MATH; 4.
DR SMART; SM00212; UBCC; 1.
DR PROSITE; PS01444; MATH; 4.
DR PROSITE; PS01127; UBIQUITIN_CONJUGAT_2; 1.
RW Hypothetical protein.
SQ SEQUENCE 2208 AA; 250169 MW; CF247BA9B0E2205C CRC64;
Query Match 3.3%; Score 14; DB 2; Length 2208;
Best Local Similarity 100.0%; Pred. No. 0.00083;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 321 PTTTTTTTTTTTTT 334
Db 1681 PTTTTTTTTTTTTT 1694
RESULT 70

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Q66GT3          PRELIMINARY;          PRT; 3295 AA.
ID Q66GT3
AC Q66GT3
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Mucin apoprotein (Fragment).
GN Name=Muc19;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BN/SNHSdMCW;
RA Culp D.J., Latchney L.R., Fallon M.A., Denny P.A., Denny P.C.,
RA Couwenhoven R.I., Chuang S.;
RT "The Gene Encoding Mouse Muc19: cDNA, Genomic Organization and
RT Relationship to SMGC.";
RL Physiol. Genomics (Online) 0:0-0(2004).
DR ENBL; BK005556; DAA05596.1; -.
DR InterPro; IPR006207; Cys_knot_C.
DR InterPro; IPR009041; FMP_SGCI.
DR InterPro; IPR001007; VWF_C.
DR SMART; SM00041; CT; 1.
DR SMART; SM00214; VWC; 2.
DR PROSITE; PS01185; CTCK_1; UNKNOWN_1.
DR PROSITE; PS01225; CTCK_2; 1.
DR PROSITE; PS01208; VWF_1; UNKNOWN_1.
DR PROSITE; PS0184; VWF_2; 1.
FT NON TER 1
SQ SEQUENCE 3295 AA; 317336 MW; 322D0CF90BF9F292 CRC64;

Query Match          3.3%; Score 14; DB 2; Length 3295;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTTTT 336
DB 1184 TTTTTTTTTTTT 1197

RESULT 71
Q66GT4          PRELIMINARY;          PRT; 3550 AA.
ID Q66GT4
AC Q66GT4
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Mucin apoprotein precursor (Fragment).
GN Name=Muc19;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BN/SNHSdMCW;
RA Culp D.J., Latchney L.R., Fallon M.A., Denny P.A., Denny P.C.,
RA Couwenhoven R.I., Chuang S.;
RT "The Gene Encoding Mouse Muc19: cDNA, Genomic Organization and
RT Relationship to SMGC.";
RL Physiol. Genomics (Online) 0:0-0(2004).
DR ENBL; BK005555; DAA05595.1; -.
DR InterPro; IPR002919; Cysrich_TIL.
DR InterPro; IPR009041; FMP_SGCI.
DR InterPro; IPR006552; VWC_SGCI.
DR InterPro; IPR001846; VWF_D.
DR Pfam; PF01826; TIL; 1.
DR Pfam; PF00094; VWD; 3.
DR SMART; SM00215; VWC_out; 2.
DR SMART; SM00216; VWD; 3.
KW Signal.

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FT SIGNAL 1 21 Potential.
FT NON TER 3550 3550
SQ SEQUENCE 3550 AA; 354982 MW; 108149CC5F35DBFC CRC64;

Query Match          3.3%; Score 14; DB 2; Length 3550;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTTTT 336
DB 2446 TTTTTTTTTTTT 2459

RESULT 72
Q01601          PRELIMINARY;          PRT; 56 AA.
ID Q01601
AC Q01601
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Major surface glycoprotein (Fragment).
OS Pneumocystis carinii.
OC Eukaryota; Fungi; Ascomycota; Pneumocystidomycetes; Pneumocystidaceae;
OC Pneumocystis.
OX NCBI_TaxID=4754;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=prototype form 1;
RX MEDLINE=95107908; PubMed=7808998;
RA Linke M.J., Smolian A.G., Stringer J.R., Walzer P.D.;
RT "Characterization of multiple unique cDNAs encoding the major surface
RT glycoprotein of rat-derived Pneumocystis carinii.";
RL Parasitol. Res. 80:478-486(1994).
DR ENBL; U07057; AAA74069.1; -.
FT NON TER 1
FT NON TER 56 56
SQ SEQUENCE 56 AA; 5825 MW; AE1F4EA7718D7DF7 CRC64;

Query Match          3.1%; Score 13; DB 2; Length 56;
Best Local Similarity 100.0%; Pred. No. 0.00033;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTTTT 335
DB 1 TTTTTTTTTTTT 13

RESULT 73
Q86IE6          PRELIMINARY;          PRT; 56 AA.
ID Q86IE6
AC Q86IE6
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
DR ENBL; AC116551; AAO52164.1; -.

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KW Hypothetical protein.
SQ SEQUENCE 56 AA; 6096 MW; 5D1F0B92F86D17C7 CRC64;

Query Match 3.1%; Score 13; DB 2; Length 56;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
| | | | | | | | | | | | | | | | | |
Db 24 TTTTNTTTTTTTTT 36

RESULT 74

Q95UY4 PRELIMINARY; PRT; 67 AA.
AC Q95UY4; 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Merozoite surface protein 2 (Fragment).
OS Plasmodium falciparum.
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=5833;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=V333;
RA Hoffmann E.H., Silveira L.A., Tonhosolo R., Pereira F.J.,
RA Ribeiro W.L., Tonon A.P., Marrelli M.T., Kawamoto F., Ferreira M.U.;
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY008396; AAG30717.1; -.
KW Merozoite.
FT NON_TER 1 1
FT NON_TER 67 67
SQ SEQUENCE 67 AA; 5732 MW; 6B2B3F43575D87C7 CRC64;

Query Match 3.1%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
| | | | | | | | | | | | | | | | | |
Db 55 TTTTNTTTTTTTTT 67

RESULT 75

Q95UY6 PRELIMINARY; PRT; 67 AA.
AC Q95UY6; 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Merozoite surface protein 2 (Fragment).
OS Plasmodium falciparum.
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=5833;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=V57;
RA Hoffmann E.H., Silveira L.A., Tonhosolo R., Pereira F.J.,
RA Ribeiro W.L., Tonon A.P., Marrelli M.T., Kawamoto F., Ferreira M.U.;
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY008394; AAG30715.1; -.
KW Merozoite.
FT NON_TER 1 1
FT NON_TER 67 67
SQ SEQUENCE 67 AA; 5706 MW; 6C5E8980203990C4 CRC64;

Query Match 3.1%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
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Db 55 TTTTNTTTTTTTTT 67

Search completed: June 28, 2005, 10:20:31
Job time: 112.051 secs

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OM protein - protein search, using sw model

Run on: June 28, 2005, 09:54:53 ; Search time 114.43 Seconds
(without alignments)
1429.691 Million cell updates/sec

Title: us-10-622-237-4
Perfect score: 423
Sequence: 1 APPGLRLRLLLLLLSAAL.....TALINAEQQNNSEKKEYF 423

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 2105692 seqs, 386760381 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database : A Geneseq_16Dec04:*
1: Geneseqp1980s:*
2: Geneseqp1990s:*
3: Geneseqp2000s:*
4: Geneseqp2001s:*
5: Geneseqp2002s:*
6: Geneseqp2003as:*
7: Geneseqp2003bs:*
8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	423	100.0	423	3	RAY45093
2	396	93.6	397	8	ABO4563 Mouse lym
3	150	35.5	364	3	ABO4563 Mouse can
4	150	35.5	364	6	ABO4563 Protein e
5	150	35.5	364	8	ADA27058 Human nov
6	150	35.5	370	5	ADP6588 Novel hum
7	150	35.5	370	5	ADP41469 Human CD-
8	150	35.5	402	4	RAM23691 Human EST
9	150	35.5	414	3	RAY53028 Human sec
10	150	35.5	425	8	ABO4564 Human can
11	150	35.5	440	2	RAY17830 Human PRO
12	150	35.5	440	3	ABO1321 Human PRO
13	150	35.5	440	4	AAU29040 Human PRO
14	150	35.5	440	6	ABU58416 Human PRO
15	150	35.5	440	6	ABU87964 Novel hum
16	150	35.5	440	6	ABU84279 Human sec
17	150	35.5	440	6	ABR66153 Human sec
18	150	35.5	440	6	ABR65543 Human sec
19	150	35.5	440	6	ABU99483 Human sec
20	150	35.5	440	6	ABU55930 Human sec
21	150	35.5	440	6	ABU82722 Human PRO
22	150	35.5	440	6	ABU89843 Novel hum
23	150	35.5	440	6	ABR68092 Human sec
24	150	35.5	440	6	ABU96145 Novel hum
25	150	35.5	440	6	ABU92576 Human sec
					ABO08653 Human sec

26	150	35.5	440	6	ABO02705	ABO02705 Human sec
27	150	35.5	440	6	ABR74859	ABR74859 Human sec
28	150	35.5	440	6	ABR94621	ABR94621 Human sec
29	150	35.5	440	6	ABU60240	ABU60240 Human PRO
30	150	35.5	440	6	ABU85594	ABU85594 Human PRO
31	150	35.5	440	6	ABU98754	ABU98754 Novel hum
32	150	35.5	440	6	ABU97969	ABU97969 Novel hum
33	150	35.5	440	6	ABU91675	ABU91675 Novel hum
34	150	35.5	440	6	ABU89368	ABU89368 Human PRO
35	150	35.5	440	6	ABU86209	ABU86209 Human sec
36	150	35.5	440	6	ABU67422	ABU67422 Human sec
37	150	35.5	440	6	ABU80450	ABU80450 Human PRO
38	150	35.5	440	6	ABR99368	ABR99368 Human sec
39	150	35.5	440	6	ABR98758	ABR98758 Human sec
40	150	35.5	440	6	ABO16281	ABO16281 Human sec
41	150	35.5	440	6	ABR92181	ABR92181 Human sec
42	150	35.5	440	6	ABO18822	ABO18822 Human sec
43	150	35.5	440	6	ABR78243	ABR78243 Human sec
44	150	35.5	440	6	ABU64926	ABU64926 Human sec
45	150	35.5	440	6	ABU84979	ABU84979 Novel hum
46	150	35.5	440	6	ABO00118	ABO00118 Novel hum
47	150	35.5	440	6	ABO11450	ABO11450 Human sec
48	150	35.5	440	6	ABO02095	ABO02095 Human sec
49	150	35.5	440	6	ABU58360	ABU58360 Novel hum
50	150	35.5	440	6	ABU88669	ABU88669 Novel hum
51	150	35.5	440	6	ABU83364	ABU83364 Human sec
52	150	35.5	440	6	ABO06185	ABO06185 Novel hum
53	150	35.5	440	6	ABR59201	ABR59201 Human sec
54	150	35.5	440	6	ABO09263	ABO09263 Human sec
55	150	35.5	440	6	ABO19127	ABO19127 Novel hum
56	150	35.5	440	6	ABO11145	ABO11145 Human sec
57	150	35.5	440	6	ABR66763	ABR66763 Human sec
58	150	35.5	440	6	ABO15976	ABO15976 Human sec
59	150	35.5	440	6	ABO13682	ABO13682 Human sec
60	150	35.5	440	6	ABU57246	ABU57246 Human PRO
61	150	35.5	440	6	ABU65585	ABU65585 Human sec
62	150	35.5	440	6	ABO07433	ABO07433 Human PRO
63	150	35.5	440	6	ABO03620	ABO03620 Human sec
64	150	35.5	440	6	ABR67088	ABR67088 Human sec
65	150	35.5	440	6	ABO15671	ABO15671 Human sec
66	150	35.5	440	6	ABU55952	ABU55952 Human sec
67	150	35.5	440	6	ABU65280	ABU65280 Human PRO
68	150	35.5	440	6	ABU95225	ABU95225 Novel hum
69	150	35.5	440	6	ABU71128	ABU71128 Human PRO
70	150	35.5	440	6	ABO07738	ABO07738 Human PRO
71	150	35.5	440	6	ABR69979	ABR69979 Human sec
72	150	35.5	440	6	ABR69312	ABR69312 Human sec
73	150	35.5	440	6	ABO01453	ABO01453 Human PRO
74	150	35.5	440	6	ABU81255	ABU81255 Human PRO
75	150	35.5	440	6	ABR60052	ABR60052 Human sec
76	150	35.5	440	6	ABR67787	ABR67787 Human sec
77	150	35.5	440	6	ABR65175	ABR65175 Human sec
78	150	35.5	440	6	ABR68397	ABR68397 Human sec
79	150	35.5	440	6	ABR71809	ABR71809 Human sec
80	150	35.5	440	6	ABU85289	ABU85289 Human PRO
81	150	35.5	440	6	ABU88979	ABU88979 Human sec
82	150	35.5	440	6	ABU83059	ABU83059 Human sec
83	150	35.5	440	6	ABU94915	ABU94915 Novel hum
84	150	35.5	440	6	ABU90463	ABU90463 Novel hum
85	150	35.5	440	6	ABU83974	ABU83974 Human sec
86	150	35.5	440	6	ABU93625	ABU93625 Novel hum
87	150	35.5	440	6	ABR64870	ABR64870 Human sec
88	150	35.5	440	6	ABR68702	ABR68702 Human sec
89	150	35.5	440	6	ABO06518	ABO06518 Human sec
90	150	35.5	440	6	ABR99063	ABR99063 Human sec
91	150	35.5	440	6	ABU56311	ABU56311 Human PRO
92	150	35.5	440	6	ABU56947	ABU56947 Human PRO
93	150	35.5	440	6	ABU85899	ABU85899 Novel hum
94	150	35.5	440	6	ABU82186	ABU82186 Novel hum
95	150	35.5	440	6	ABU87197	ABU87197 Human PRO
96	150	35.5	440	6	ABU83669	ABU83669 Human sec
97	150	35.5	440	6	ABO08043	ABO08043 Human PRO
98	150	35.5	440	6	ABU60351	ABU60351 Novel hum

99	150	35.5	440	6	ABU81754	Novel hum
100	150	35.5	440	6	ABU65918	Novel hum
101	150	35.5	440	6	ABR59747	Human sec
102	150	35.5	440	6	ABU93935	Novel hum
103	150	35.5	440	6	ABU99788	Novel hum
104	150	35.5	440	6	ABR66458	Human sec
105	150	35.5	440	6	ABR90876	Human sec
106	150	35.5	440	6	ABU94303	Human PRO
107	150	35.5	440	6	ABU79185	Human PRO
108	150	35.5	440	6	ABU86514	Human sec
109	150	35.5	440	6	ABU86819	Novel hum
110	150	35.5	440	6	ABU94608	Human PRO
111	150	35.5	440	6	ABO04535	Human PRO
112	150	35.5	440	6	ABR70284	Human sec
113	150	35.5	440	6	ABU98449	Human PRO
114	150	35.5	440	6	ABR65848	Human sec
115	150	35.5	440	6	ABR64565	Human sec
116	150	35.5	440	6	ABU79490	Human PRO
117	150	35.5	440	6	ABU92881	Human sec
118	150	35.5	440	6	ABU95840	Human PRO
119	150	35.5	440	6	ABU91060	Novel hum
120	150	35.5	440	6	ABU90153	Novel hum
121	150	35.5	440	6	ABO09568	Human sec
122	150	35.5	440	6	ABO10840	Human sec
123	150	35.5	440	6	ABR70894	Human sec
124	150	35.5	440	6	ABU87502	Human PRO
125	150	35.5	440	6	ABU91370	Human PRO
126	150	35.5	440	6	ABU84584	Human sec
127	150	35.5	440	6	ABR69674	Human sec
128	150	35.5	440	6	ABU80051	Human PRO
129	150	35.5	440	6	ABU93320	Human PRO
130	150	35.5	440	6	ABO09873	Human sec
131	150	35.5	440	6	ABO08958	Human sec
132	150	35.5	440	6	ABU10526	Human sec
133	150	35.5	440	6	ABU11312	Human PRO
134	150	35.5	440	6	ABU67131	Human PRO
135	150	35.5	440	6	ABU95535	Human PRO
136	150	35.5	440	6	ABU96744	Novel hum
137	150	35.5	440	6	ABR70589	Human sec
138	150	35.5	440	6	ABO04940	Novel hum
139	150	35.5	440	6	ABO08348	Human sec
140	150	35.5	440	6	ABO05555	Human sec
141	150	35.5	440	6	ABR73944	Human sec
142	150	35.5	440	6	ABR95536	Human sec
143	150	35.5	440	6	ABR80833	Human sec
144	150	35.5	440	6	ABR81138	Human sec
145	150	35.5	440	6	ABM00834	Human sec
146	150	35.5	440	6	ABR88436	Human sec
147	150	35.5	440	6	ABM77257	Human sec
148	150	35.5	440	6	ABO28741	Human sec
149	150	35.5	440	6	ABO31486	Human sec
150	150	35.5	440	6	ABM07903	Human sec

ALIGNMENTS

RESULT 1
AA45093
ID AAY45093 standard; protein; 423 AA.
XX
AC AAY45093;
XX
DT 31-MAY-2000 (first entry)
XX
DE Mouse lymphoid derived dendritic cell adhesion molecule.
XX
KW Lymphoid derived dendritic cell adhesion molecule; LDCAM; mouse; B7-1;
KW B7-1; T cell proliferation; natural killer cell; NK; tumour cell;
KW biological activity; quality control reagent; treatment; inflammation;
KW immune system disorder; autoimmune; viral infection; infectious disease;
KW organ transplant rejection; bone marrow; modulator; immune response.
XX

OS	Mus sp.	
XX	Key	Location/Qualifiers
FT	Domain	1..356
FT	Modified-site	/label= Extracellular_domain
FT	Modified-site	/note= "N-Glycosylation site"
FT	Modified-site	83..85
FT	Modified-site	/note= "N-Glycosylation site"
FT	Modified-site	95..97
FT	Modified-site	/note= "N-Glycosylation site"
FT	Modified-site	147..149
FT	Modified-site	/note= "N-Glycosylation site"
FT	Modified-site	286..288
FT	Modified-site	/note= "N-Glycosylation site"
FT	Modified-site	290..292
FT	Modified-site	/note= "N-Glycosylation site"
FT	Domain	357..377
FT	Domain	/label= Transmembrane_domain
FT	Domain	378..423
FT	Domain	/label= Cytoplasmic_domain
XX	WO200008158-A2.	
XX	17-FEB-2000.	
XX	05-AUG-1999;	99WO-US017905.
XX	07-AUG-1998;	98US-0095672P.
XX	(IMMUNEX)	IMMUNEX CORP.
XX	Baum PR,	Fanslow WC;
XX	WPI;	2000-205712/18.
XX	N-PSDB;	AAZ50883.
XX	Novel molecules designated LDCAM are capable of altering or modulating T cell function.	
XX	Claim 7;	Page 46-47; 44pp; English.

The present amino acid sequence is the mouse lymphoid derived dendritic cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic cells and displays homology to adhesion molecules, B7-1 and cytoplasmic region of B7-L1. Mouse LDCAM is found on whole embryo, testes, triple negative cells murine splenic and lymph node CD8+, S49.1 and dendritic cells. LDCAM polypeptides interacts with T cell surface molecules to alter signalling and inhibits T cell proliferation, bind to themselves and B7-L1, an LDCAM binding protein and increases natural killer (NK) cell populations. It may be used to measure the biological activity and as quality control reagents of LDCAM binding proteins. LDCAM may be used for treating disorders associated with malfunctioning of immune system, inflammation, autoimmune disorders, viral infected cells, infectious diseases and for killing tumour cells. They are also useful for prevention or reducing the effect of organ and bone marrow transplant rejection and for modulating T cell immune responses. LDCAM polypeptides may also be used as carriers for delivering agents attached to T cells or cells bearing B7-1

Query Match 100.0%; Score 423; DB 3; Length 423;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPPGLRLRLLLLLLSAALIPGDCQNLFKTDVTVIEGEVATISQVKNKSDSVIQLN 60
Db 1 AAPPGLRLRLLLLLLSAALIPGDCQNLFKTDVTVIEGEVATISQVKNKSDSVIQLN 60
QY 61 PNRQTIYFDFRPLKDSRRFQLNFFSSSELKSLVSLTNVSIISDEGRYFCQLYTDPQESYTTI 120
Db 61 PNRQTIYFDFRPLKDSRRFQLNFFSSSELKSLVSLTNVSIISDEGRYFCQLYTDPQESYTTI 120

QY 121 TVLVPPNLMIDIKOTAVGEEIEVNCCTAMASKPATTIRFWKGNKELKSKSEVWSOM 180
 DB 121 TVLVPPNLMIDIKOTAVGEEIEVNCCTAMASKPATTIRFWKGNKELKSKSEVWSOM 180
 QY 181 YTVTSQMLKVKHEDDGVPIQVHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
 DB 181 YTVTSQMLKVKHEDDGVPIQVHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
 QY 241 EGDFAELTCRAIKGPKQPVWTVRVDDEMPQHAVLSPNLFINNLTNDNGTYRCEASNI 300
 DB 241 EGDFAELTCRAIKGPKQPVWTVRVDDEMPQHAVLSPNLFINNLTNDNGTYRCEASNI 300
 QY 301 VGKASDYMVLVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
 DB 301 VGKASDYMVLVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
 QY 361 GVVAVVVFAMLCILILGRYFARHKGTYFTHEAKGADDAADATAIINAEAGGQNNSEKK 420
 DB 361 GVVAVVVFAMLCILILGRYFARHKGTYFTHEAKGADDAADATAIINAEAGGQNNSEKK 420
 QY 421 EYF 423
 DB 421 EYF 423

RESULT 2
 ABO84563
 ID ABO84563 standard; protein; 397 AA.
 AC ABO84563;
 XX
 XX 18-NOV-2004 (first entry)
 XX Mouse cancer-associated protein MP16-039.1.
 XX Mouse; cancer-associated protein; cytostatic; cancer; leukaemia;
 KW lymphoma; CAP.
 XX
 XX Mus musculus.
 XX
 XX W02004074320-A2.
 XX
 XX 02-SEP-2004.
 XX
 XX 17-FEB-2004; 2004WO-US004730.
 XX
 XX 14-FEB-2003; 2003US-00367094.
 PR 14-MAR-2003; 2003US-00388838.
 PR 15-APR-2003; 2003US-00417375.
 PR 13-JUN-2003; 2003US-00461862.
 PR 15-SEP-2003; 2003US-00663431.
 PR 15-DEC-2003; 2003US-00737318.
 XX
 XX (SAGR-) SAGRES DISCOVERY INC.
 XX
 XX Morris DW, Morris DW, Malandro MS;
 XX
 XX WPI: 2004-652914/63.
 DR N-PSDB; ABD32790.
 XX

XX New isolated cancer-associated polynucleotides and polypeptides useful
 PT for diagnosing, preventing or treating cancers, especially lymphoma and
 PT leukemia, or in screening for agents that modulate cancer.

XX disclosure; seqid 419; 310pp; English.

XX The invention relates to an isolated nucleic acid comprising at least 10
 CC contiguous nucleotides of any of the 233 polynucleotide sequences given
 CC in the specification, or its complement. The nucleic acids encode cancer-
 CC associated proteins. Also included are an expression vector comprising
 CC the isolated nucleic acid cited above, a host cell comprising the above
 CC recombinant nucleic acid or expression vector, a microarray for detecting

CC a cancer-associated (CA) nucleic acid comprising at least one probe
 CC comprising at least 10 contiguous nucleotides of any of the above-
 CC mentioned nucleotide sequences, an isolated polypeptide (encoded within
 CC an open reading frame of a CA sequence selected from any of the 95
 CC polynucleotide sequences as mentioned in the specification, or its
 CC complement), an isolated antibody, (or its antigen binding fragment) that
 CC binds to the above polypeptide, a hybridoma that produces the above
 CC monoclonal antibody, a pharmaceutical composition comprising the above
 CC antibody and a pharmaceutical excipient, a kit for detecting cancer
 CC cells (comprising the antibody cited above, methods for diagnosing cancer
 CC or for detecting the presence or absence of cancer cells in an
 CC individual, a method for inhibiting growth of cancer cells in an
 CC individual, a method for delivering a therapeutic agent to cancer cells
 CC in an individual, an electronic library comprising the above
 CC polynucleotide or polypeptide (or their fragments), methods of screening
 CC for anticancer activity or for a bioactive agent capable of modulating
 CC the activity of a CA protein (CAP), methods for detecting cancer
 CC associated with expression of a polypeptide in a test cell sample, a
 CC method for treating cancers and a method for inhibiting the expression of
 CC CA gene in a cell. The composition and methods are useful for detecting,
 CC diagnosing, preventing and treating cancers, especially lymphoma and
 CC leukaemia. These may also be used in screening for agents that modulate
 CC cancer. The present sequence is a mouse CAP protein sequence. Note: The
 CC sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 397 AA;

Query Match 93.6%; Score 396; DB 8; Length 397;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 396; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 28 NLFTKDVTVIEGEVATISQVKNKSDSVIQLLNNRQTIYFRFRPLKDSRFOLLNPS 87
 DB 1 NLFTKDVTVIEGEVATISQVKNKSDSVIQLLNNRQTIYFRFRPLKDSRFOLLNPS 60
 QY 88 ELKVSILTNVSIISDEGRYFCOLYTDPPQESVYTTITVLVPPNLMIDIKOTAVGEEIEVN 147
 DB 61 ELKVSILTNVSIISDEGRYFCOLYTDPPQESVYTTITVLVPPNLMIDIKOTAVGEEIEVN 120
 QY 148 CTAMASKPATTIRFWKGNKELKSKSEVWSDMYTVTSQMLKVKHEDDGVPIQVHP 207
 DB 121 CTAMASKPATTIRFWKGNKELKSKSEVWSDMYTVTSQMLKVKHEDDGVPIQVHP 180
 QY 208 AVTGNLQRYLEVQYKQVHIQMTYPLQGLTREGDAFELTCRAIKGPKQPVMTWVRVDD 267
 DB 181 AVTGNLQRYLEVQYKQVHIQMTYPLQGLTREGDAFELTCRAIKGPKQPVMTWVRVDD 240
 QY 268 EMPQHAVLSPNLFINNLTNDNGTYRCEASNIQVKAHSDYMLVYDPTTIPPTTTT 327
 DB 241 EMPQHAVLSPNLFINNLTNDNGTYRCEASNIQVKAHSDYMLVYDPTTIPPTTTT 300
 QY 328 TTTTTTTTTTITDTSRAGEEGTIGAVDHAVIGVAVVVFAMLCILILGRYFARHKG 387
 DB 301 TTTTTTTTTTITDTSRAGEEGTIGAVDHAVIGVAVVVFAMLCILILGRYFARHKG 360
 QY 388 YFTHEAKGADDAADATAIINAEAGGQNNSEKKEIF 423
 DB 361 YFTHEAKGADDAADATAIINAEAGGQNNSEKKEIF 396

RESULT 3
 AAB25586

ID AAB25586 standard; protein; 364 AA.

XX AAB25586;

XX 21-NOV-2000 (first entry)

XX Protein encoded by human secreted protein gene #11.

XX Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;

KW antitumescic, dermatological; antiproliferative; antiarteriosclerotic;
 KW anticancer; vulnary; antiviral; antibacterial; antifungal;
 KW immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
 KW multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
 KW Crohn's disease; nephritis; hyperproliferative disorder;
 KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
 KW melanoma; lymphoma; wound healing; human.
 XX Homo sapiens.
 XX WO200029435-A1.
 PN 25-MAY-2000.
 XX 27-OCT-1999; 99WO-US025031.
 XX 28-OCT-1998; 98US-0105971P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX Ni J, Ruben SM, Olsen HS, Young PE, Kenny JJ, Moore PA, Wei Y;
 PI Greene JM;
 XX WPI; 2000-387742/33.
 DR N-PSDB; AAA80616.

XX Isolated nucleic acid molecules encoding human secreted proteins are used
 for the prevention, amelioration and treatment of autoimmune, cancer,
 PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,
 PT wounds, and infectious diseases.
 XX

XX Claim 1; Fig 28A-B; 803pp; English.

XX The present invention relates to 12 secreted human proteins and the
 CC nucleotide sequences encoding them. The polynucleotide sequences given in
 CC AAA80606-A80623 encode the 12 secreted protein sequences given in
 CC AAB25576-B25593. The human secreted proteins have various activities
 CC dependent on the tissues in which they are expressed. Examples of the
 CC activities of the proteins include: immunosuppressant; anti-inflammatory;
 CC antirheumatic; dermatologic; antiproliferative;
 CC antiarteriosclerotic; anticancer; vulnary; antiviral; antibacterial;
 CC and antifungal activity. The proteins, polypeptides, agonists and
 CC antagonists may be used to treat prevent and/or diagnose various disease,
 CC disorders and conditions examples of which include: immune disorders e.g.
 CC Addison's disease, rheumatoid arthritis, dermatitis, and multiple
 CC sclerosis; inflammatory disorders e.g. inflammatory bowel disease,
 CC Crohn's disease and nephritis; hyperproliferative disorders such as
 CC paraproteinemia and purpura; cardiovascular disorders e.g. coronary
 CC arteriosclerosis and myocarditis; cancer e.g. melanoma and lymphoma. The
 CC proteins and polynucleotide sequences may also be used in wound healing
 CC and the treatment of infectious diseases. The human secreted protein gene
 CC #11 and protein sequences are represented in sequences AAA80616 and
 CC AAB25586. Sequences AAA80677-A80682 represent genes related to the
 CC secreted protein gene#11
 XX

XX Sequence 364 AA;

Query Match 35.5%; Score 150; DB 3; Length 364;
 Best Local Similarity 100.0%; Pred. No. 6.5e-135;
 Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 16 SAALPTGQNLFTKDVTVIGEVATISCVQNKSDSVIQLNPNRQTIYFRDRLPLK 75
 DB 34 SAALPTGQNLFTKDVTVIGEVATISCVQNKSDSVIQLNPNRQTIYFRDRLPLK 93
 QY 76 DSRFQLNFFSSSLKSLVNTWSIDSGRYFCQLYTDPQSSYTTITVLPNRLMIDIQK 135
 DB 94 DSRFQLNFFSSSLKSLVNTWSIDSGRYFCQLYTDPQSSYTTITVLPNRLMIDIQK 153
 QY 136 DTAVEGEEIEVNTAMASKPATIRWPKGN 165
 DB 154 DTAVEGEEIEVNTAMASKPATIRWPKGN 183

RESULT 4

ADA27058
 ID ADA27058 standard; protein; 364 AA.

XX ADA27058;

AC 20-NOV-2003 (first entry)

XX Human novel secreted protein from cDNA HOUJ81 #1.

XX cytostatic; antiinflammatory; immunomodulator; neuroprotective;
 KW hemostatic; gene therapy; cancer; inflammation; immune disorder;
 KW neurological disorder; blood clotting disorder; food additive;
 KW preservative; human; secreted protein.
 XX

OS Homo sapiens.

XX US2003055231-A1.

PN 20-MAR-2003.

XX 29-OCT-2001; 2001US-00984130.

XX 28-OCT-1998; 98US-0105971P.

PR 27-OCT-1999; 99WO-US025031.

PR 19-APR-2000; 2000US-0198407P.

PR 30-OCT-2000; 2000US-0243792P.

PR 18-APR-2001; 2001US-00836353.

XX (NIJ)/ NI J.

PA (YOUNG) YOUNG P E.

PA (KENN) KENNY J J.

PA (OLSE) OLSEN H S.

PA (MOOR) MOORE P A.

PA (WEIY) WEI Y.

PA (GREE) GREENE J M.

PA (RUBE) RUBEN S M.

PA (LIUD) LIU D.

PA (CROC) CROCKER P R.

XX Ni J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;

PI Ruben SM, Liu D, Crocker PR;

XX WPI; 2003-567103/53.

DR N-PSDB; ADA27040.

XX New human secreted nucleic acid molecules and polypeptides, useful for
 PT preventing, treating, or ameliorating a medical condition, such as
 PT cancer, inflammation, immune disorders, neurological and blood clotting
 PT disorders.
 XX

XX Claim 11; Fig 28; 454pp; English.

XX The invention relates to an isolated nucleic molecule that is at least
 CC 95% identical to 18 human cDNA sequences representing 12 novel genes
 CC encoding secreted proteins or a polynucleotide fragment of the cDNA
 CC sequence contained in American Type Culture Collection (ATCC) deposit No.
 CC defined in the specification, its species homologue, a variant or allelic
 CC variant of the polynucleotide having a polynucleotide capable of
 CC hybridising under conditions the polynucleotide, where the polynucleotide
 CC does not hybridise under stringent conditions to a nucleic acid molecule
 CC having a nucleotide sequence of only A or T residues. Also included are
 CC recombinant vectors, host cells (for producing the polypeptide), the
 CC secreted polypeptide (comprising a sequence that is at least 95%
 CC identical to a polypeptide fragment, domain, epitope, full-length
 CC protein, variant, allelic variant or species homologue), antibodies that
 CC specifically bind to the polypeptides, diagnosing, treating, preventing
 CC or ameliorating a medical condition by administering the polynucleotide
 CC or the polypeptide, the gene corresponding to the cDNA sequence and
 CC identifying an activity in a biological assay (by expressing the cDNA
 CC sequence in a cell, isolating the supernatant, and detecting an activity
 CC in a biological assay and identifying the protein in the supernatant

CC having the activity). The polypeptides, nucleic acids and antibodies are
 CC useful for diagnosing a pathological condition or a susceptibility to a
 CC pathological condition, for preventing, treating, or ameliorating a
 CC medical condition, such as cancer, inflammation and other immune
 CC disorders, neurological and blood clotting disorders (many examples are
 CC given in the specification). The nucleic acids are also useful for
 CC chromosome identification, radiation hybrid mapping or long-range
 CC restriction mapping. The polypeptides and antibodies are useful for
 CC providing immunological probes for differential identification of the
 CC tissues immunohistochemistry assays. The polypeptide, polynucleotide,
 CC agonist or antagonist may also be used as a food additive or preservative
 CC to increase or decrease storage capabilities, fat content or other
 CC nutritional components. The present is a secreted protein of the
 CC invention.

XX SQ Sequence 364 AA;

Query Match 35.5%; Score 150; DB 6; Length 364;
 Best Local Similarity 100.0%; Pred. No. 6.5e-135;
 Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75

Db 34 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 93

Qy 76 DSRFQLNFSSELKSLTNVTSIDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135

Db 94 DSRFQLNFSSELKSLTNVTSIDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 153

Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165

Db 154 DTAVEGEIEVNCVTAMASKPATIRWPKGN 183

RESULT 5

AD86588
 ID ADE86588 standard; protein; 364 AA.

AC ADE86588;

XX 29-JAN-2004 (first entry)

DE Novel human secreted protein #11.

XX human; secreted protein; cancer; liver disorder; hepatitis;
 KW neural disorder; Alzheimer's disease.

OS Homo sapiens.

XX US2003129685-A1.

PN 10-JUL-2003.

XX 18-APR-2001; 2001US-00836353.

XX 28-OCT-1998; 98US-0105971P.

PR 27-OCT-1999; 99WO-US025031.

PR 19-APR-2000; 2000US-0198407P.

XX (NIJJ/) NI J.

PA (YOUN/) YOUNG P E.

PA (KENN/) KENNY J J.

PA (OLSE/) OLSEN H S.

PA (MOOR/) MOORE P A.

PA (WEIY/) WEI Y.

PA (GREE/) GREENE J M.

PA (RUBE/) RUBEN S M.

XX Ni J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;

PI Ruben SM;

XX WPI; 2004-020335/02.

DR N-PSDB; ADE86570.

DR

XX

PT New nucleic acid molecule, useful for preparing a medicament for
 PT preventing, treating or ameliorating a medical condition e.g. cancer,
 PT liver disorders or neural disorders.

XX Claim 11; SEQ ID NO 39; 380pp; English.

XX The invention relates to an isolated nucleic acid sequence, or its

CC allelic variant, a fragment of the cDNA sequence, or its fragment,
 CC domain, epitope or species homologue. The nucleic acid is useful for
 CC preparing a medicament for preventing, treating or ameliorating a medical
 CC condition e.g. cancer, liver disorders such as hepatitis or neural
 CC disorders such as Alzheimer's disease. The present sequence represents
 CC the amino acid sequence of a novel human secreted protein.

XX SQ Sequence 364 AA;

Query Match 35.5%; Score 150; DB 8; Length 364;
 Best Local Similarity 100.0%; Pred. No. 6.5e-135;
 Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75

Db 34 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 93

Qy 76 DSRFQLNFSSELKSLTNVTSIDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135

Db 94 DSRFQLNFSSELKSLTNVTSIDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 153

Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165

Db 154 DTAVEGEIEVNCVTAMASKPATIRWPKGN 183

RESULT 6

ADR41469
 ID ADR41469 standard; protein; 370 AA.

AC ADR41469;

XX 07-OCT-2004 (first entry)

DE Human CD-like molecule HATCZ07, SEQ ID NO:268.

XX Human; CD-like molecule; cluster of differentiation; diagnosis;
 KW prevention; immune disorder; immunodeficiency; autoimmune disorder;
 KW blood-related disorder; haematological disorder; haemostatic disorder;
 KW thrombolytic disorder; hyperproliferative disorder; cancer; tumour;
 KW apoptotic disorder; cardiovascular disorder; respiratory disorder;
 KW angiogenic disorder; neovascularisation; neurological disorder;
 KW endocrine disorder; reproductive system disorder; infectious disease;
 KW gastrointestinal disorder; drug screening; tissue regeneration;
 KW chemotaxis; gene therapy; antibody therapy; drug targeting;
 KW chromosome mapping; forensic analysis; immunophenotyping; cytostatic;
 KW haemostatic; tranquiliser; vulnery; antiinflammatory; nephrotropic;
 KW candiant; antiallergic; anti-HIV; antirheumatic; antiarthritic;
 KW antipsoriatic; immunosuppressive; vasotropic; neurotropic; neuroprotective;
 KW antithyroid; thyromimetic; gynaecological; virucide; hepatotropic;
 KW antibacterial; dermatological; chromosome 11q23.2.

XX Homo sapiens.

OS WO200226930-A2.

XX 04-APR-2002.

XX 25-SEP-2001; 2001WO-US029838.

XX 26-SEP-2000; 2000US-0235484P.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Birse CE;

PI

XX WPI; 2002-405050/43.
DR N-PSDB; ADR41293.
XX
XX Novel polynucleotides and polypeptides useful for treating, preventing or
PT ameliorating cardiovascular, renal, neurovascular, and autoimmune
PT disorders.
XX
XX Claim 11; SEQ ID NO 268; 1243pp; English.
PS
PS
XX
XX The invention relates to 167 novel human CD (cluster of differentiation)-
CC like molecules (ADR41388-ADR41563) and to cDNAs encoding them (seqid.11)-
CC
XX Sequence 370 AA;
SQ
Query Match 35.5%; Score 150; DB 5; Length 370;
Best Local Similarity 100.0%; Pred. No. 6.6e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNNRQTIYFRDPRPLK 75
Db 42 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNNRQTIYFRDPRPLK 101
QY 76 DSRFQLNFSSELKVSLSLTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRLMIDIQ 135
Db 102 DSRFQLNFSSELKVSLSLTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRLMIDIQ 161
QY 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 162 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 191
RESULT 7
AAM23691
ID AAM23691 standard; protein; 402 AA.
AC AAM23691;
XX
XX 12-OCT-2001 (first entry)
DT
XX
XX Human EST encoded protein SEQ ID NO: 1216.
DE
XX
XX Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
KW diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
KW gene therapy; nutrition.
XX
XX Homo sapiens.
OS
XX
XX WO200154477-A2.
PN
XX
XX 02-AUG-2001.
PD
XX
XX 25-JAN-2001; 2001WO-US002687.
PF
XX
XX 25-JAN-2000; 2000US-00491404.
PR
XX 17-JUL-2000; 2000US-00617746.
PR
XX 03-AUG-2000; 2000US-00631451.
PR
XX 15-SEP-2000; 2000US-00663870.
PR
XX
XX (HYSE-) HYSEQ INC.
PA
XX
XX Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;
PI Cao Y, Drmanac RA, Zhang J, Werhman T;
PI
XX WPI; 2001-476164/51.
DR
XX N-PSDB; AAH98350.
DR
XX Isolated polypeptide for treatment of diseases, diagnostics, raising
PT antibodies and research use.
PT
XX Claim 20; Page 877-878; 1275pp; English.
PS
XX
XX

CC The present invention provides the protein and coding sequences of novel
CC proteins from a variety of organisms, including human, dog, cat, horse,
CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
CC from the organism of interest. They can be used in diagnostics,
CC forensics, gene mapping, identification of mutations, to assess
CC biodiversity and for nutritional purposes. The present sequence is a
CC protein of the invention
XX
XX Sequence 402 AA;
SQ
Query Match 35.5%; Score 150; DB 4; Length 402;
Best Local Similarity 100.0%; Pred. No. 7.1e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNNRQTIYFRDPRPLK 75
Db 34 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNNRQTIYFRDPRPLK 93
QY 76 DSRFQLNFSSELKVSLSLTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRLMIDIQ 135
Db 94 DSRFQLNFSSELKVSLSLTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRLMIDIQ 153
QY 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 154 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 183
RESULT 8
AAY53028
ID AAY53028 standard; protein; 414 AA.
XX
XX AAY53028;
AC
XX
XX 29-FEB-2000 (first entry)
DT
XX
XX Human secreted protein clone cw1000_2 protein sequence SEQ ID NO:62.
DE
XX
XX Human; secreted protein; nutritional; cytokine; cell proliferation;
KW differentiation; immune stimulating; vaccine; suppression;
KW haematopoiesis regulation; tissue growth; activin; inhibin; chemotactic;
KW chemokinetic; haemostatic; thrombolytic; receptor; ligand;
KW anti-inflammatory; cadherin; tumour invasion suppressor;
KW tumour inhibition; gene therapy.
XX
XX Homo sapiens.
OS
XX
XX WO9957132-A1.
PN
XX
XX 11-NOV-1999.
PD
XX
XX 07-MAY-1999; 99WO-US009970.
PF
XX
XX 07-MAY-1998; 98US-0084564P.
PR
XX 02-JUN-1998; 98US-0087645P.
PR
XX 22-JUL-1998; 98US-0093712P.
PR
XX 31-JUL-1998; 98US-0094935P.
PR
XX 10-AUG-1998; 98US-0095880P.
PR
XX 11-AUG-1998; 98US-0096068P.
PR
XX 06-MAY-1999; 99US-00306111.
PR
XX
XX (GEMY) GENETICS INST INC.
PA
XX
XX Jacobs K, Mccoy JM, Lavallie ER, Collins-Racie LA, Evans C;
PI Merberg D, Treacy M, Agostino MJ, Steininger RJ, Bowman MR;
PI Diblasio-Smith E, Widom A;
PI
XX WPI; 2000-052937/04.
DR
XX N-PSDB; AA233346.
DR
XX New polynucleotides encoding secreted human proteins, derived from adult
PT placenta, adult retina, fetal brain, fetal.
PT
XX

Claim 71; Page 416-417; 492pp; English.

The present invention describes new human secreted proteins which were isolated from adult placenta, adult retina, foetal brain, foetal kidney, adult blood, adult brain, adult thyroid, adult bladder, adult neural tissue, adult testes, and adult lymph node cDNA libraries. The human secreted proteins, and the polynucleotides encoding them, are predicted to have biological activities which would make them suitable for treating, preventing or ameliorating medical conditions in humans and animals. Suggested activities include nutritional activity, cytokine and cell proliferation/differentiation activity, immune stimulating (e.g. as vaccines) or suppressing activity, haematopoiesis regulating activity, tissue growth activity, activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, receptor/ligand activity, anti-inflammatory activity, cachexin/tumour invasion suppressor activity, and tumour inhibition activity. The polynucleotides are also stated to be useful for gene therapy. AA233316 to AA233373 encode human secreted proteins, and AA232998 to AA233060 represent human secreted proteins, given in the present invention

XX Sequence 414 AA;

Query Match 35.5%; Score 150; DB 3; Length 414;
Best Local Similarity 100.0%; Pred. No. 7.3e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALPIPTGQGQLFTKDVTVIEGEVATISCOVNKSDSVIQLLPNQTIVFRDRLPK 75
| | | | |
DB 34 SAALPIPTGQGQLFTKDVTVIEGEVATISCOVNKSDSVIQLLPNQTIVFRDRLPK 93
| | | | |

QY 76 DSRFOLLNFSSSELKVSLTNVISDEGRYFCOLYTDPPOESYTTITVLVPPRNLMIDIQ 135
| | | | |
DB 94 DSRFOLLNFSSSELKVSLTNVISDEGRYFCOLYTDPPOESYTTITVLVPPRNLMIDIQ 153
| | | | |

QY 136 DTAVEGEEIEVNCTAMASKPATTIRWFKGN 165
| | | | |
DB 154 DTAVEGEEIEVNCTAMASKPATTIRWFKGN 183
| | | | |

RESULT 9
ABO84564
ID ABO84564 standard; protein; 425 AA.
XX ABO84564;
DT 18-NOV-2004 (first entry)
XX Human cancer-associated protein HPI6-039.1.
XX Human cancer-associated protein; cytostatic; cancer; leukaemia;
KW Lymphoma; CAP.
XW Homo sapiens.
OS WO2004074320-A2.
XX 02-SEP-2004.
XX 17-FEB-2004; 2004WO-US004730.
XX 14-FEB-2003; 2003US-00367094.
PR 14-MAR-2003; 2003US-0038838.
PR 15-APR-2003; 2003US-00417375.
PR 13-JUN-2003; 2003US-00461862.
PR 15-SEP-2003; 2003US-00663431.
PR 15-DEC-2003; 2003US-00737318.
XX (SAGR-) SAGRES DISCOVERY INC.
XX Morris DW, Morris DW, Malandro MS;
PI WPI; 2004-652914/63.
XX N-PSDB; ABD32792.
DR

New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.

claim 18; seqid 422; 310pp; English.

The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-associated proteins. Also included are an expression vector comprising recombinant nucleic acid or expression vector, a microarray for detecting the isolated nucleic acid cited above, a host cell comprising the above cancer-associated (CA) nucleic acid comprising at least one probe mentioned nucleotide sequences, an isolated polypeptide (encoded within polynucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above monoclonal antibody, a pharmaceutical composition comprising the above antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer or for detecting the presence or absence of cancer cells in an individual, a method for inhibiting growth of cancer cells in an individual, a method for delivering a therapeutic agent to cancer cells in an individual, an electronic library comprising the above polynucleotide or polypeptide (or their fragments), methods of screening for anticancer activity or for a bioactive agent capable of modulating the activity of a CA protein (CAP), methods for detecting cancer associated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of a CA gene in a cell. The composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and leukaemia. These may also be used in screening for agents that modulate cancer. The present sequence is a human CAP protein sequence. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX Sequence 425 AA;

Query Match 35.5%; Score 150; DB 8; Length 425;
Best Local Similarity 100.0%; Pred. No. 7.5e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALPIPTGQGQLFTKDVTVIEGEVATISCOVNKSDSVIQLLPNQTIVFRDRLPK 75
| | | | |
DB 34 SAALPIPTGQGQLFTKDVTVIEGEVATISCOVNKSDSVIQLLPNQTIVFRDRLPK 93
| | | | |

QY 76 DSRFOLLNFSSSELKVSLTNVISDEGRYFCOLYTDPPOESYTTITVLVPPRNLMIDIQ 135
| | | | |
DB 94 DSRFOLLNFSSSELKVSLTNVISDEGRYFCOLYTDPPOESYTTITVLVPPRNLMIDIQ 153
| | | | |

QY 136 DTAVEGEEIEVNCTAMASKPATTIRWFKGN 165
| | | | |
DB 154 DTAVEGEEIEVNCTAMASKPATTIRWFKGN 183
| | | | |

RESULT 10
AAV17830
ID AAV17830 standard; protein; 440 AA.
XX AAV17830;
AC AAV17830;
XX 12-AUG-1999 (first entry)
DT Human PRO355 protein sequence.
XX Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
KW secreted protein; transmembrane protein; inflammation disorder.
XX Homo sapiens.
OS

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XX  WO9928462-A2.
PN  10-JUN-1999.
PD  01-DEC-1998; 98WO-US025108.
PF  03-DEC-1997; 97US-0067411P.
XX  11-DEC-1997; 97US-0069278P.
PR  11-DEC-1997; 97US-0069334P.
PR  11-DEC-1997; 97US-0069335P.
PR  12-DEC-1997; 97US-0069425P.
PR  16-DEC-1997; 97US-0069694P.
PR  16-DEC-1997; 97US-0069696P.
PR  16-DEC-1997; 97US-0069702P.
PR  17-DEC-1997; 97US-0069870P.
PR  17-DEC-1997; 97US-0069873P.
PR  18-DEC-1997; 97US-0068017P.
PR  05-JAN-1998; 98US-0070440P.
PR  05-FEB-1998; 98US-0074086P.
PR  05-FEB-1998; 98US-0074092P.
PR  25-FEB-1998; 98US-0075945P.
XX  (GETH ) GENENTECH INC.
PA  Wood WI, Goddard A, Gurney AL, Yuan J, Baker KP, Chen J;
XX  WPI; 1999-371118/31.
XX  N-PSDB; AAX80055.
XX  Nucleic acids encoding PRO secreted and transmembrane proteins.
FT  Claim 12; Fig 27; 123pp; English.
XX  The present invention describes nucleic acids encoding PRO secreted and
CC  cytosolic, anti-inflammatory, anti-proliferative and immunosuppressive
CC  activity. The proteins and polynucleotides can be used in therapy,
CC  identification of homologues, raising antibodies and design of probes and
CC  primers. They can be used in a range of diseases related to proteins that
CC  they have homology with, e.g. a PRO protein having homology to complement
CC  proteins may be used in inflammatory responses
XX  SQ  Sequence 440 AA;
Query Match 35.5%; Score 150; DB 2; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;
QY 16 SAAALPTGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
DB 32 SAAALPTGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFFSSSELKSLVNTVNSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 135
DB 92 DSRFQLNFFSSSELKSLVNTVNSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 151
QY 136 DTAVEGEIEVNCVTAMASKPATTIRWPKGN 165
DB 152 DTAVEGEIEVNCVTAMASKPATTIRWPKGN 181
RESULT 11
AAB01321
ID AAB01321 standard; protein; 440 AA.
XX AAB01321;
XX 25-SEP-2000 (first entry)
XX Human PRO355 polypeptide.
XX PRO; membrane bound protein; secreted protein; PRO357; PRO327; PRO243;

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KW PRO715; PRO241; PRO323; PRO299; PRO233; PRO344; PRO347; PRO355; PRO353;
KW PRO361; PRO365; transmembrane polypeptide; antibody; screening;
XX detection; inhibition; probe; primer; human.
XX Homo sapiens.
XX Key Location/Qualifiers
FT Peptide 1..36 /label= Signal peptide
FT Modified-site 9..15 /note= "N-myristoylation site"
FT Modified-site 65..69 /note= "N-glycosylation site"
FT Modified-site 99..103 /note= "N-glycosylation site"
FT Modified-site 111..115 /note= "N-glycosylation site"
FT Modified-site 163..167 /note= "N-glycosylation site"
FT Modified-site 227..233 /note= "N-myristoylation site"
FT Modified-site 233..240 /note= "Tyrosine kinase phosphorylation site"
FT Modified-site 302..306 /note= "N-glycosylation site"
FT Modified-site 306..310 /note= "N-glycosylation site"
FT Modified-site 307..313 /note= "N-myristoylation site"
FT Modified-site 319..328 /note= "Tyrosine kinase phosphorylation site"
FT Modified-site 365..371 /note= "N-myristoylation site"
FT Domain 372..393 /label= Transmembrane domain
FT Modified-site 376..382 /note= "N-myristoylation site"
FT Modified-site 402..408 /note= "N-myristoylation site"
FT Modified-site 411..417 /note= "N-myristoylation site"
FT Modified-site 427..433 /note= "N-myristoylation site"
FT Modified-site 428..432 /note= "N-myristoylation site"
FT Modified-site 430..434 /note= "N-glycosylation site"
XX WO200032776-A2.
XX 08-JUN-2000.
XX 01-DEC-1999; 99WO-US028301.
XX 01-DEC-1998; 98WO-US025108.
PR 16-DEC-1998; 98US-0112850P.
PR 22-DEC-1998; 98US-0113296P.
XX (GETH ) GENENTECH INC.
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CU, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX WPI; 2000-412324/35.
DR N-PSDB; AAA49563.
XX New human nucleic acids encoding secreted and transmembrane polypeptides,
PT designated as PRO polypeptides, useful as pharmaceutical and diagnostic
XX agents.
XX Claim 12; Fig 24; 187pp; English.
XX

```

CC	New human nucleic acids encoding secreted and transmembrane polypeptides
CC	which are designated as PRO polypeptides are described The membrane-bound
CC	proteins have various industrial applications, including as
CC	pharmaceutical and diagnostic agents. The membrane-bound proteins can
CC	also be employed for screening of potential peptide or small molecule
CC	inhibitors of the relevant receptor/ligand interaction. Anti-PRO
CC	antibodies are useful for the affinity purification of PRO from
CC	recombinant cell culture or natural sources
XX	
SQ	Sequence 440 AA;
Query Match 35.5%; Score 150; DB 3; Length 440;	
Best Local Similarity 100.0%; Pred. No. 7.7e-135;	
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPRTIYFRDFRPLK 75
Db	32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPRTIYFRDFRPLK 91
Qy	76 DSRFQLNFSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRLNLMIDIQK 135
Db	92 DSRFQLNFSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRLNLMIDIQK 151
Qy	136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db	152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181
RESULT 12	
AAU29040	
XX	ID AAU29040 standard; protein; 440 AA.
AC	AAU29040;
XX	
DT	18-DEC-2001 (first entry)
DE	Human PRO polypeptide sequence #17.
KW	PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
KW	dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW	blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW	adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
OS	Homo sapiens.
XX	
PN	WO200168848-A2.
XX	
PD	20-SEP-2001.
XX	
PF	28-FEB-2001; 2001WO-US006520.
XX	
PR	01-MAR-2000; 2000WO-US005601.
PR	02-MAR-2000; 2000WO-US005841.
PR	03-MAR-2000; 2000US-0187202P.
PR	06-MAR-2000; 2000US-0186968P.
PR	14-MAR-2000; 2000US-0189320P.
PR	14-MAR-2000; 2000US-0189328P.
PR	15-MAR-2000; 2000WO-US006884.
PR	21-MAR-2000; 2000US-0190828P.
PR	21-MAR-2000; 2000US-0191007P.
PR	21-MAR-2000; 2000US-0191048P.
PR	21-MAR-2000; 2000US-0191314P.
PR	28-MAR-2000; 2000US-0192655P.
PR	29-MAR-2000; 2000US-0193032P.
PR	29-MAR-2000; 2000US-0193053P.
PR	30-MAR-2000; 2000WO-US008439.
PR	04-APR-2000; 2000US-0194449P.
PR	04-APR-2000; 2000US-0194647P.
PR	11-APR-2000; 2000US-0195975P.
PR	11-APR-2000; 2000US-0196000P.
PR	11-APR-2000; 2000US-0196187P.
PR	11-APR-2000; 2000US-0196690P.
PR	11-APR-2000; 2000US-0196820P.
PR	
PR	18-APR-2000; 2000US-0198121P.
PR	18-APR-2000; 2000US-0198585P.
PR	25-APR-2000; 2000US-0199397P.
PR	25-APR-2000; 2000US-0199550P.
PR	25-APR-2000; 2000US-0199654P.
PR	03-MAY-2000; 2000US-0201516P.
PR	17-MAY-2000; 2000WO-US013705.
PR	22-MAY-2000; 2000WO-US014042.
PR	30-MAY-2000; 2000WO-US014941.
PR	02-JUN-2000; 2000WO-US015264.
PR	05-JUN-2000; 2000US-0209832P.
PR	28-JUL-2000; 2000WO-US020710.
PR	22-AUG-2000; 2000US-00644848.
PR	24-AUG-2000; 2000WO-US023328.
PR	08-NOV-2000; 2000WO-US030952.
PR	01-DEC-2000; 2000WO-US032678.
PR	20-DEC-2000; 2000WO-US034956.
XX	
PA	(GETH) GENENTECH INC.
XX	
PI	Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI	Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX	
DR	WPI; 2001-602746/68.
DR	N-PSDB; AAS45941.
XX	
PT	Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT	presence of tumors, such as prostate and breast tumors, in mammals and to
PT	screen for modulators of the compounds.
XX	
PS	Claim 11; Fig 34; 774pp; English.
XX	
CC	Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
CC	The PRO polypeptides and their associated nucleic acids can be used to
CC	detect the presence of a tumour in a mammal by comparing the level of
CC	expression of a PRO polypeptide in a test sample of cells from the animal
CC	and a control sample of normal cells, whereby a higher level of
CC	expression in the test sample indicates the presence of a tumour in the
CC	mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC	and rabbits but are preferably human. The polypeptides can be used to
CC	stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC	when contacted with it. A specific polypeptide can be used to stimulate
CC	the proliferation or differentiation of chondrocyte cells. The PRO
CC	proteins can be used to determine the presence of tumours and also
CC	susceptibility to tumour development, particularly adrenal, lung, colon,
CC	breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC	subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC	can be used for genetic analysis of individuals with genetic disorders
XX	
SQ	Sequence 440 AA;
Query Match 35.5%; Score 150; DB 4; Length 440;	
Best Local Similarity 100.0%; Pred. No. 7.7e-135;	
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
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XX 15-APR-2003 (first entry)
DT Human PRO polypeptide #17.
XX Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
DE dog; cat; cow; horse; sheep; pig; goat; rabbit; ADSP;
XX antibody-dependent enzyme mediated prodrug therapy.
KW
KW Homo sapiens.
XX
XX US2003027272-A1.
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XX 06-FEB-2003.
XX
XX 21-JUN-2002; 2002US-00176492.
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Qy 76 DSRFQLNFSSELKVSILTNVISDEGRYFCQLYTDPPQESYTTITVLVPPNLMIDIQ 135
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Qy 136 DTAVEGEIEVNCNTAMASKPATTIRWFKGN 165
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ABU87964
ID ABU87964 standard; protein; 440 AA.
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XX 07-JUL-2003 (first entry)
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XX Human; secreted and transmembrane protein; PRO; gene therapy;
KW tumour necrosis factor-alpha release; TNF-alpha release;
KW chondrocyte proliferation; chondrocyte differentiation; tumour;
KW adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX Homo sapiens.
XX US2003032127-A1.
XX 13-FEB-2003.
XX 26-JUN-2002; 2002US-00183012.
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XX DE Human secreted/transmembrane protein (PRO) #17. 28-MAY-1998; 98US-0087098P.
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha; 02-JUN-1998; 98US-0087208P.
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy; 02-JUN-1998; 98US-0087759P.
XX tissue typing. 03-JUN-1998; 98US-0087827P.
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PR	01-SEP-1998;	98US-0098723P.	KW	chondrocyte; proliferation; differentiation; cartilage disorder;
PR	02-SEP-1998;	98US-0098803P.	KW	bone disorder; arthritis; sports injury; cancer; diagnosis;
PR	02-SEP-1998;	98US-0098821P.	KW	adrenal tumour; lung; colon; breast; prostate; kidney; cervix;
PR	09-SEP-1998;	98US-0098843P.	KW	liver; drug screening; transgenic animal; genetic analysis;
PR	09-SEP-1998;	98US-0099602P.	KW	antiarthritic; vulnery; gene therapy.
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Qy	76	DSRFQLNFFSSELKVSITNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK	135	
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Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
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XX Human; PRO; secreted protein; transmembrane protein;
XX extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
XX bone disorder; proliferation; differentiation; cartilage disorder;
XX chondrocyte; arthritis; sports injury; cancer; tumour; diagnosis;
XX adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
XX liver; drug screening; transgenic animal; genetic analysis;
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PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7,7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 32 SAALITGDCQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRLK 91
Qy 76 DSRFQLNFSSELKVSILTNVISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 135
Db 92 DSRFQLNFSSELKVSILTNVISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 151
Qy 136 DTAVEGEEIEVNCATAMASKPATTIRWPKGN 165
Db 152 DTAVEGEEIEVNCATAMASKPATTIRWPKGN 181
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RESULT 18
ABU99483
ID ABU99483 standard; protein; 440 AA.
XX AC ABU99483;
XX DT 09-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) #17.
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
XX tissue typing.
XX OS Homo sapiens.
XX PN US2003040070-A1.
XX PD 27-FEB-2003.
XX PF 27-JUN-2002; 2002US-00184627.
XX PR 18-SEP-1997; 97US-0059263P.
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PR 21-OCT-1997; 97US-0063486P.
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PR 04-AUG-1998;	98US-0095282P.		
PR 10-AUG-1998;	98US-0095998P.		
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35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	32	SAALIIPTGDQNLFTKDVTVIEGEVATIS	QVNVKSDSDSVIQLNPNRQTIYFRDPRPLK	91
Qy	76	DSRFQLLNFSSSELKVLNTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK	135	
Db	92	DSRFQLLNFSSSELKVLNTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK	151	
Qy	136	DTAVEGEEIEVNCVTAMASKPATTIRWFKGN	165	
Db	152	DTAVEGEEIEVNCVTAMASKPATTIRWFKGN	181	

RESULT 19

ABUS5930
ID ABUS5930 standard; protein; 440 AA.
XX AC
XX ABUS5930;
XX DT 26-MAR-2003 (first entry)
XX DE Human secreted/transmembrane protein PRO355.
XX KW Human; PRO; secreted protein; transmembrane protein; anti-HIV;
KW cytosolic; antiarteriosclerotic; antiinflammatory; antidiabetic;
KW cardiant; AIDS; acquired immunodeficiency syndrome; cancer;
KW atherosclerosis; inflammatory disease; diabetic complication;
KW cardiac injury; organ failure.
XX OS Homo sapiens.
XX PN US2002142959-A1.
XX PD 03-OCT-2002.
XX PF 31-AUG-2001; 2001US-00944654.
XX PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 22-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 02-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005941.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX (GETH) GENENTECH INC.
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
XX Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
XX Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WT;
XX WPI; 2003-174141/17.
XX N-PSDB; ABX75486.
XX New isolated PRO polypeptide and encoding nucleic acid, useful for the
XX diagnosis and treatment of disorders associated with the PRO polypeptide,
XX such as AIDS, cancer, atherosclerosis, inflammatory disease and diabetes.
XX Claim 12; Fig 24; 178pp; English.
XX The invention relates to an isolated PRO polypeptide (a secreted or
XX transmembrane protein) comprising: (a) at least 80% sequence identity or
XX positives when compared to any of 15 sequences, fully defined in the
XX specification, lacking or with its associated signal peptide; or (b) at
XX least 80% sequence identity to a sequence encoded by the full-length
XX coding sequence of a DNA deposited in the American Type Culture
XX Collection (ATCC). Also included are: (1) an isolated nucleic acid
XX comprising: (a) at least 80% sequence identity to a nucleotide sequence
XX that encodes a PRO protein; (b) at least 80% sequence identity to a
XX nucleotide sequence or full-length coding sequence with any of 15 fully
XX defined sequences of 957-3441 base pairs, given in the specification; or
XX (c) at least 80% sequence identity to a full-length coding sequence of a
XX DNA deposited under ATCC Accession No. 209526, 209508, 209524, 209528,
XX 209530, 209523, 209492, 209532, 209531, 209529, 209527, 209570, 209618,
XX 209621 or 209619; (2) a vector comprising the nucleic acid; (3) a host

CC cell comprising the vector which, when cultured under conditions suitable
CC for expression of the PRO polypeptide, produces the PRO protein; (4) a
CC chimeric molecule comprising PRO fused to a heterologous amino acid
CC sequence; and (5) an anti-PRO antibody. The methods and compositions of
CC the present invention are useful for the diagnosis and treatment of
CC disorders associated with the PRO polypeptide, such as AIDS (acquired
CC immunodeficiency syndrome), cancer, atherosclerosis, inflammatory
CC disease, diabetic complications, cardiac injury and organ failure. The
CC antibodies can also be used in the different screening, therapeutic and
CC biological assays. The present sequence represents a PRO protein
XX SQ Sequence 440 AA;

Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALIPGQNLFTKDVIVIEGVATISQVNVKSDSVIQLNPNRQTIYFRDPLK 75

DB 32 SAAALIPGQNLFTKDVIVIEGVATISQVNVKSDSVIQLNPNRQTIYFRDPLK 91

QY 76 DSRFQLNPFSSSELKSLTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 135

DB 92 DSRFQLNPFSSSELKSLTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 151

QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165

DB 152 DTAVEGEIEVNCNTAMASKPATIRWFKGN 181

RESULT 20

ABUS2722

ID ABUS2722 standard; protein; 440 AA.

XX AC ABUS2722;

XX DT 27-JUN-2003 (first entry)

XX DE Human PRO polypeptide #17.

XX KW Human; PRO polypeptide; secreted and transmembrane protein; tumour;

XX KW chromosome mapping; gene mapping; cytostatic.

XX OS Homo sapiens.

XX PN US2003032113-A1.

XX PD 13-FEB-2003.

XX PF 20-JUN-2002; 2002US-00176911.

XX PR 18-SEP-1997; 97US-0059263P.

XX PR 18-SEP-1997; 97US-0059266P.

XX PR 17-OCT-1997; 97US-0062250P.

XX PR 21-OCT-1997; 97US-0063486P.

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XX PR 28-OCT-1997; 97US-0063540P.

XX PR 28-OCT-1997; 97US-0063541P.

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XX PR 13-NOV-1997; 97US-0065311P.

XX PR 21-NOV-1997; 97US-0066120P.

XX PR 24-NOV-1997; 97US-0066466P.

XX PR 24-NOV-1997; 97US-0066772P.

XX PR 11-DEC-1997; 97US-0069335P.

XX PR 12-DEC-1997; 97US-0069425P.

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RESULT 21
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XX AC ABU89843;
XX DT 11-AUG-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO355.
KW Human; gene therapy; tissue typing; tumour; chondrocyte proliferation;
KW chondrocyte differentiation; tumour necrosis factor-alpha release;
KW affinity purification.
XX OS Homo sapiens.
XX PN US2003036147-A1.
XX PD 20-FEB-2003.
XX PF 02-JUL-2002; 2002US-00187741.
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KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;	
KW chondrocyte; proliferation; differentiation; cartilage disorder;	
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;	
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;	
KW liver; drug screening; transgenic animal; genetic analysis;	
KW antiarthritic; vulnery; gene therapy.	
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QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCNTAMASKPATIRWFKGN 181

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AC ABU96145;
XX
DT 25-JUL-2003 (first entry)
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XX
KW Human; secreted and transmembrane protein; PRO; transgenic animal;
KW knockout; chromosome identification; tissue typing; tumour;
KW chondrocyte proliferation; chondrocyte differentiation;
KW tumor necrosis factor-alpha release stimulator.
XX
OS Homo sapiens.
XX
PN US2003036144-A1.
XX
PD 20-FEB-2003.
XX
PF 01-JUL-2002; 2002US-00187601.
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Best Local Similarity 100.0%; Pred. No. 7.7e-135;
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Qy 136 DTAVEGEEIEVNCVTAMASKPATTIRWFKGN 165
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Db 152 DTAVEGEEIEVNCVTAMASKPATTIRWFKGN 181
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RESULT 24
ABU92576
ID ABU92576 standard; protein; 440 AA.
XX AC ABU92576;
XX DT 18-JUL-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) #17.
XX KW Human; secreted protein; transmembrane protein; PRO; tumour;
XX KW proliferation; differentiation; chondrocyte cell; TNF-alpha;
XX KW tumour necrosis factor-alpha; gene therapy.
XX OS Homo sapiens.
XX PN US2003036149-A1.
XX PD 20-FEB-2003.
XX PF 02-JUL-2002; 2002US-00187746.
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KW	tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;		
KW	tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;		
KW	prostate tumour; rectal tumour; cervical tumour; liver tumour.		
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AC ABO02705;
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KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX Homo sapiens.
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XX US2003040062-A1.
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Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPLK 75
DB 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPLK 91
QY 76 DSRFQLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
DB 92 DSRFQLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151
QY 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
DB 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181
RESULT 28
ABR94621
ID ABR94621 standard; protein; 440 AA.
XX AC ABR94621;
XX DT 13-SEP-2003 (first entry)
XX DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX KW Human; PRO; secreted protein; transmembrane protein;
XX KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
XX KW chondrocyte; proliferation; differentiation; cartilage disorder;
XX KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
XX KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
XX KW liver; drug screening; transgenic animal; genetic analysis;
XX KW antiarthritic; vulnerary; gene therapy.
OS Homo sapiens.
XX US2003044926-A1.
XX PD 06-MAR-2003.
XX PF 26-JUN-2002; 2002US-00183015.
XX PR 18-SEP-1997; 97US-0059263P.
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PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDFRPLK 91

Qy 76 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
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Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 29
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ID ABU60240 standard; protein; 440 AA.
XX ABU60240;
XX DT 24-APR-2003 (first entry)
XX DE Human PRO polypeptide #11.
XX KW Human; PRO; secreted polypeptide; transmembrane polypeptide; cancer;
KW inflammatory disease; atherosclerosis; cardiac injury; AIDS; infertility;
KW birth defect; premature aging; diabetes; dog; cat; horse;
KW acquired immunodeficiency syndrome; cow; sheep; pig; goat; rabbit;
KW industry; cytostatic; antiinflammatory; cardiant; antiinfertility;
KW anti-HIV; antiarteriosclerotic; antidiabetic.
XX OS Homo sapiens.
XX PN US2002132768-A1.
XX PD 19-SEP-2002.
XX PF 31-AUG-2001; 2001US-00945015.
XX PR 03-DEC-1997; 97US-0067411P.
XX PR 11-DEC-1997; 97US-0069278P.
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PR 01-DEC-1998; 98WO-US025108.
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PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US008439.
PR 28-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX (GETH ) GENENTECH INC.
PA Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WJ;
XX WPI; 2003-174088/17.
DR N-PSDB; ABX89477.
XX
XX New secreted and transmembrane polypeptides (e.g. PRO241, for use in
PT pharmaceuticals, diagnostics or bioreactors, particularly for detecting
PT or treating e.g. cancers, infertility or acquired immunodeficiency
PT syndrome in mammals.
XX Claim 1; Fig 24; 173pp; English.
PS The invention relates to a human secreted and transmembrane polypeptide
XX (PRO) and the polynucleotide encoding it. The PRO polypeptide or
CC polynucleotide is useful in pharmaceuticals, diagnostics, biosensors or
CC bioreactors. These are particularly useful for detecting or treating
CC cancers, inflammatory diseases, atherosclerosis, cardiac injury,
CC infertility, birth defects, premature aging, acquired immunodeficiency
CC syndrome (AIDS) and diabetic complications in mammals, e.g. humans, dogs,
CC cats, cattle, horses, sheep, pigs, goats or rabbits. The sequences are
CC also useful in biotechnological and medical research and in various
CC industrial applications. Sequences ABU60230-ABU60245 represent human PRO
CC polypeptides of the invention
XX Sequence 440 AA;
SQ

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Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDFRPLK 75
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Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165

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[illegible]

XX Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
KW chondrocyte stimulator; tumour; adrenal tumour; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW cervical tumour; liver tumour; TNF-alpha release;
KW tumour necrosis factor alpha release; chondrocyte cell proliferation;
KW chondrocyte cell differentiation; pharmaceutical; diagnostic; biosensor;
KW bioreactor.
XX
OS Homo sapiens.
XX
PN US2003013153-A1.
XX PD 16-JAN-2003.
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PF 19-JUN-2002; 2002US-00175737.
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Db	32	SAALIPGTGQNLFTKDVTVIEGVATISQVKNKSDSVTLQNLNPNRQTIYFRDPRPLK	91	
Qy	76	DSRFQNLNFSSELKVSILTNVISIDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIQK	135	
Db	92	DSRFQNLNFSSELKVSILTNVISIDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIQK	151	
Qy	136	DTAVEGEIEVNCCTAMASKPATTIRWPKGN	165	
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AC	ABU97969;			
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DT	30-JUL-2003	(first entry)		
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Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 32 SAAALIFTGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 91
Qy 76 DSRQLNLFSSSELKVSITNVSISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 135
Db 92 DSRQLNLFSSSELKVSITNVSISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 33
ABU91675
ID ABU91675 standard; protein; 440 AA.
XX AC ABU91675;
XX AC ABU91675;
DT 11-AUG-2003 (first entry)
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XX DE Novel human secreted and transmembrane protein PRO355.
XX KW Human; gene therapy; chromosome identification; tissue typing.
XX OS Homo sapiens.
XX PN US2003027277-A1.
XX PD 06-FEB-2003.
XX PF 21-JUN-2002; 2002US-00176985.
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Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 32 SAALITGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91

Qy 76 DSRFOLLNFSSELKUSLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 135

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Db 152 DTAVEGEIEVNCVTAMASKPATTTIRWFKGN 181

RESULT 34

ID ABU89368

XX ABU89368 standard; protein; 440 AA.

AC ABU89368;

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XX

DT 09-JUL-2003 (first entry)
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KW Human; PRO polypeptide; secreted protein; transmembrane protein;
KW chromosome mapping; gene mapping; tumour; adrenal; lung; colon; breast;
KW prostate; rectal; cervical; liver; cancer; TNF-alpha;
KW tumour necrosis factor-alpha; proliferation; differentiation;
KW chondrocyte cell; bone disorder; cartilage disorder; sports injury;
KW arthritis; cytostatic; antiarthritic; osteopathic.
XX
OS Homo sapiens.
XX
XX US2003036141-A1.
XX
XX 20-FEB-2003.
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XX 01-JUL-2002; 2002US-00187597.
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XX 01-APR-1998; 98US-0080327P.
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PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
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PR 18-SEP-1998; 98US-0100849P.
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PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDFRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDFRPLK 91
Qy 76 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTPDPQSSYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTPDPQSSYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 181

RESULT 35
ABU86209
ID ABU86209 standard; protein; 440 AA.
XX
AC ABU86209;
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XX 01-JUL-2003 (first entry)
XX Human secreted/transmembrane protein (PRO) #17.
XX Human; immunogen; secreted protein; transmembrane protein; PRO; tumour;
KW proliferation; differentiation; chondrocyte cells;
KW tumour necrosis factor-alpha; TNF-alpha; blood; gene therapy.
XX Homo sapiens.
XX US2003036146-A1.
XX 20-FEB-2003.
XX 02-JUL-2002; 2002US-00187603.
XX 26-JUN-1998; 98US-00105413.
XX 16-SEP-1998; 98WO-US019330.
XX 07-OCT-1998; 98US-00168978.
XX 07-OCT-1998; 98WO-US021141.
XX 06-NOV-1998; 98US-00187368.
XX 01-DEC-1998; 98WO-US025108.
XX 07-DEC-1998; 98US-00202054.
XX 03-MAR-1999; 99US-00254311.
XX 08-MAR-1999; 99WO-US005028.
XX 14-MAY-1999; 99US-00311832.
XX 14-MAY-1999; 99WO-US010733.
XX 02-JUN-1999; 99US-0012252.
XX 25-AUG-1999; 99US-00380137.
XX 25-AUG-1999; 99US-00380138.
XX 25-AUG-1999; 99US-00380139.
XX 25-AUG-1999; 99US-00380142.
XX 01-SEP-1999; 99WO-US020111.
XX 15-SEP-1999; 99US-00201090.
XX 18-OCT-1999; 99US-00403297.
XX 12-NOV-1999; 99US-00423844.
XX 01-DEC-1999; 99WO-US028301.
XX 02-DEC-1999; 99WO-US028551.
XX 30-DEC-1999; 99WO-US031274.
XX 05-JAN-2000; 2000WO-US000219.
XX 18-FEB-2000; 2000WO-US004341.
XX 18-FEB-2000; 2000WO-US004342.
XX 22-FEB-2000; 2000WO-US004414.
XX 24-FEB-2000; 2000WO-US005004.
XX 01-MAR-2000; 2000WO-US005501.
XX 02-MAR-2000; 2000WO-US005841.
XX 15-MAR-2000; 2000WO-US006884.
XX 30-MAR-2000; 2000WO-US008439.
XX 17-MAY-2000; 2000WO-US013705.
XX 22-MAY-2000; 2000WO-US014042.
XX 30-MAY-2000; 2000WO-US014941.
XX 02-JUN-2000; 2000WO-US015264.
XX 28-JUL-2000; 2000WO-US020710.
XX 22-AUG-2000; 2000US-00644848.
XX 24-AUG-2000; 2000WO-US023328.
XX 18-SEP-2000; 2000US-00664610.
XX 18-SEP-2000; 2000US-00665350.
XX 08-NOV-2000; 2000US-00709238.
XX 01-DEC-2000; 2000WO-US032678.
XX 20-DEC-2000; 2000US-00747259.
XX 28-FEB-2001; 2001WO-US006520.
XX 22-MAR-2001; 2001US-00816744.
XX 10-MAY-2001; 2001US-00854280.
XX 25-MAY-2001; 2001US-00854280.
XX 01-JUN-2001; 2001WO-US017800.
XX 05-JUN-2001; 2001US-00874503.
XX 20-JUN-2001; 2001WO-US019692.
XX 29-JUN-2001; 2001WO-US021066.
XX 03-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX (GETH ) GENENTECH INC.
XX Baker KP, Chen J, Deenoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-332034/31.
XX N-PSDB; ACA73401.
XX Three hundred and five nucleic acids encoding PRO polypeptides, useful in
XX gene therapy, chromosome identification, tissue typing, and for detecting
XX the presence of tumor in a mammal.
XX Claim 11; Fig 34; 707pp; English.
XX The invention relates to three hundred and five nucleic acids encoding
XX PRO polypeptides (secreted and transmembrane), sequences 80% identical to
XX them, or encoding a PRO polypeptide lacking its associated signal peptide
XX or an extracellular domain of the PRO polypeptide, with or lacking its
XX associated signal peptide. Also included are the encoded PRO proteins,
XX PRO expression vectors, host cells transformed with the vector (used to
XX produce PRO proteins), a chimeric molecule comprising the PRO
XX polypeptide fused to a heterologous amino acid sequence, an anti-PRO
XX antibody, a method for stimulating the release of tumor necrosis factor
XX alpha (TNF-alpha) from human blood (by contacting the blood with PRO1079,
XX PRO827, PRO791, PRO1316, PRO1183, PRO1343, PRO1760, PRO1567 or
XX PRO4333), a method for stimulating the proliferation or differentiation
XX of chondrocyte cells by contacting the cells with a PRO6029 polypeptide,
XX a method for detecting the presence of tumor in a mammal and an
XX oligonucleotide probe derived from any of the nucleotide sequences cited
XX above. The PRO polypeptide or anti-PRO antibody is useful for preparing a
XX medicament for treating a condition that is responsive to the PRO
XX polypeptide or anti-PRO antibody. The PRO nucleotide sequences are useful
XX as hybridisation probes in chromosome and gene mapping, or in generating
XX polypeptides, in assays to identify other proteins or molecules involved
XX in a binding reaction, to generate transgenic animals or knockout
XX animals, which in turn are useful in the development and screening of
XX therapeutically useful reagents, for chromosome identification, and
XX tissue typing. The PRO polypeptides and nucleic acid molecules are also
XX useful for detecting the presence of a tumour in a mammal, stimulating
XX proliferation or differentiation of chondrocyte cells, stimulating the
XX release of tumour necrosis factor-alpha from human blood, in gene
XX therapy, or as molecular weight markers for protein electrophoresis
XX purposes. The anti-PRO antibodies may be used in diagnostic assays for
XX PRO, or for the affinity purification of PRO from recombinant cell
XX culture or natural sources. The present sequence represents a PRO protein
XX Sequence 440 AA;
XX
XX Query Match 35.5%; Score 150; DB 6; Length 440;
XX Best Local Similarity 100.0%; Pred. No. 7.7e-135;
XX Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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XX QY 16 SAAALPTGQNLFTKDVIEGAVATISCVNKSDSDSVIQLLNPNRQTIYFRDPLK 75
XX |||||
XX Db 32 SAAALPTGQNLFTKDVIEGAVATISCVNKSDSDSVIQLLNPNRQTIYFRDPLK 91
XX |||||
XX QY 76 DSRFQLNFSSELKSLVSLTNVSISSDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 135
XX |||||
XX Db 92 DSRFQLNFSSELKSLVSLTNVSISSDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 151
XX |||||
XX QY 136 DTAVEGEEIEVNCTANASKPATIRPKGN 165
XX |||||
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Db 152 DTAVEGEIEVNCNTAMASKPATTIRWPKGN 181

RESULT 36

ABU67422

ID ABU67422 standard; protein; 440 AA.

AC ABU67422;

XX 29-MAY-2003 (first entry)

XX Human secreted/transmembrane protein (PRO) #17.

DE Human; secreted and transmembrane protein; PRO; TNF-alpha;

KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;

KW tissue typing.

XX Homo sapiens.

OS

XX US2003036162-A1.

PN 20-FEB-2003.

XX 12-JUL-2002; 2002US-00194423.

XX 26-JUN-1998; 98US-00105413.

PR 16-SEP-1998; 98WO-US019330.

PR 07-OCT-1998; 98US-00168978.

PR 07-OCT-1998; 98WO-US021141.

PR 06-NOV-1998; 98US-00187368.

PR 01-DEC-1998; 98WO-US025108.

PR 01-DEC-1998; 98US-00202054.

PR 03-MAR-1999; 99US-00254311.

PR 08-MAR-1999; 99WO-US005028.

PR 14-MAY-1999; 99US-00311832.

PR 14-MAY-1999; 99WO-US010733.

PR 02-JUN-1999; 99WO-US012852.

PR 25-AUG-1999; 99US-00380137.

PR 25-AUG-1999; 99US-00380138.

PR 25-AUG-1999; 99US-00380139.

PR 25-AUG-1999; 99US-00380142.

PR 01-SEP-1999; 99WO-US020111.

PR 15-SEP-1999; 99WO-US021090.

PR 18-OCT-1999; 99US-00403297.

PR 12-NOV-1999; 99US-00423844.

PR 01-DEC-1999; 99WO-US028301.

PR 02-DEC-1999; 99WO-US028551.

PR 30-DEC-1999; 99WO-US031274.

PR 05-JAN-2000; 2000WO-US000219.

PR 18-FEB-2000; 2000WO-US004341.

PR 18-FEB-2000; 2000WO-US004342.

PR 22-FEB-2000; 2000WO-US004414.

PR 24-FEB-2000; 2000WO-US005004.

PR 01-MAR-2000; 2000WO-US005601.

PR 02-MAR-2000; 2000WO-US005841.

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PR 30-MAR-2000; 2000WO-US008439.

PR 17-MAY-2000; 2000WO-US013705.

PR 22-MAY-2000; 2000WO-US014042.

PR 30-MAY-2000; 2000WO-US014941.

PR 02-JUN-2000; 2000WO-US015264.

PR 28-JUL-2000; 2000WO-US020710.

PR 22-AUG-2000; 2000US-00644848.

PR 24-AUG-2000; 2000WO-US023328.

PR 18-SEP-2000; 2000US-00664510.

PR 18-SEP-2000; 2000US-00665350.

PR 08-NOV-2000; 2000US-00709238.

PR 08-NOV-2000; 2000WO-US030952.

PR 01-DEC-2000; 2000WO-US032678.

PR 20-DEC-2000; 2000US-00747259.

PR 20-DEC-2000; 2000WO-US034956.

PR 22-FEB-2001; 2001WO-US006520.

PR 22-MAR-2001; 2001US-00816744.

PR 10-MAY-2001; 2001US-00854208.

PR 10-MAY-2001; 2001US-00854280.

PR 25-MAY-2001; 2001US-00866028.

PR 01-JUN-2001; 2001WO-US017800.

PR 05-JUN-2001; 2001US-00874503.

PR 20-JUN-2001; 2001WO-US019692.

PR 29-JUN-2001; 2001WO-US021066.

PR 09-JUL-2001; 2001WO-US021735.

PR 18-JUL-2001; 2001US-00908827.

PR 30-JUL-2001; 2001US-00918585.

PR 06-AUG-2001; 2001US-00924419.

PR 13-AUG-2001; 2001US-00929404.

PR 16-AUG-2001; 2001US-00931836.

PR 28-AUG-2001; 2001US-00941992.

PR 29-AUG-2001; 2001WO-US027099.

PR 04-SEP-2001; 2001US-00946374.

PR 15-JAN-2002; 2002US-00052586.

XX

PA (GETH) GENENTECH INC.

XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;

PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

XX WPI; 2003-332039/31.

DR N-PSDB; ACA05716.

XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful

PT in gene therapy, in chromosome and gene mapping, as chromosome markers,

PT in tissue typing, and in chromosome identification.

XX Claim 11; Fig 34; 706pp; English.

PS The invention discloses human nucleic acids encoding secreted and

XX transmembrane (PRO) polypeptides. Also disclosed is an antibody that

CC specifically binds to the PRO polypeptide, a method for stimulating the

CC release of tumour necrosis factor alpha (TNF-alpha) from human blood by

CC contacting the blood a PRO polypeptide, a method for stimulating the

CC proliferation or differentiation of chondrocyte cells by contacting the

CC cells with a PRO polypeptide, a method for detecting the presence of a

CC tumour in a mammal and an oligonucleotide probe derived from any of the

CC PRO nucleotide sequences. The nucleotide sequences are useful as probes,

CC in chromosome and gene mapping, in generating antisense RNA and DNA, in

CC preparing PRO polypeptides by recombinant techniques and in gene therapy

CC (e.g. for replacement of defective gene). The PRO polypeptides are useful

CC as molecular weight markers for protein electrophoresis purposes, for

CC chromosome identification, as chromosome markers, as therapeutic agents,

CC for stimulating the release of TNF-alpha from human blood for

CC stimulating the proliferation or differentiation of chondrocytes and

CC detecting the presence of a tumour. The PRO polypeptides and nucleic

CC acids may also be used diagnostically for tissue typing. The sequences

CC presented in ABU67406-ABU67710 are the PRO polypeptides of the invention

XX

SQ Sequence 440 AA;

Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPLK 75

Db 32 SAAALPTGGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPLK 91

QY 76 DSRFQLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 135

Db 92 DSRFQLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 151

QY 136 DTAVEGEIEVNCNTAMASKPATTIRWPKGN 165

Db 152 DTAVEGEIEVNCNTAMASKPATTIRWPKGN 181

RESULT 37

ABU60450


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ID XX ABU80450 standard; protein; 440 AA.
AC XX
XX XX
DT 23-JUN-2003 (first entry)
XX XX
DE Human PRO protein #17.
XX XX
KW Human; tumour; adrenal; lung; colon; breast; prostate; rectal; cervical;
KW liver; PRO; gene therapy.
XX OS
XX OS Homo sapiens.
XX XX
XX XX US2003036137-A1.
XX XX
PD 20-FEB-2003.
XX XX
XX XX 27-JUN-2002; 2002US-00184640.
XX XX
XX XX 26-JUN-1998; 98US-00105413.
XX XX 16-SEP-1998; 98WO-US019330.
XX XX 07-OCT-1998; 98US-00168978.
XX XX 07-OCT-1998; 98WO-US021141.
XX XX 06-NOV-1998; 98US-00187368.
XX XX 01-DEC-1998; 98WO-US025108.
XX XX 07-DEC-1998; 98US-00202054.
XX XX 03-MAR-1999; 99US-00254311.
XX XX 08-MAR-1999; 99WO-US005028.
XX XX 14-MAY-1999; 99US-00311832.
XX XX 14-MAY-1999; 99WO-US010733.
XX XX 02-JUN-1999; 99WO-US012252.
XX XX 25-AUG-1999; 99US-00380137.
XX XX 25-AUG-1999; 99US-00380138.
XX XX 25-AUG-1999; 99US-00380139.
XX XX 25-AUG-1999; 99US-00380142.
XX XX 01-SEP-1999; 99WO-US020111.
XX XX 15-SEP-1999; 99WO-US021090.
XX XX 18-OCT-1999; 99US-00403297.
XX XX 12-NOV-1999; 99US-00423844.
XX XX 01-DEC-1999; 99WO-US028301.
XX XX 02-DEC-1999; 99WO-US028551.
XX XX 30-DEC-1999; 99WO-US031274.
XX XX 05-JAN-2000; 2000WO-US000219.
XX XX 18-FEB-2000; 2000WO-US004341.
XX XX 18-FEB-2000; 2000WO-US004342.
XX XX 22-FEB-2000; 2000WO-US004414.
XX XX 24-FEB-2000; 2000WO-US005004.
XX XX 01-MAR-2000; 2000WO-US005601.
XX XX 02-MAR-2000; 2000WO-US005841.
XX XX 15-MAR-2000; 2000WO-US006884.
XX XX 30-MAR-2000; 2000WO-US008439.
XX XX 17-MAY-2000; 2000WO-US013705.
XX XX 22-MAY-2000; 2000WO-US014042.
XX XX 30-MAY-2000; 2000WO-US014941.
XX XX 02-JUN-2000; 2000WO-US015264.
XX XX 28-JUL-2000; 2000WO-US020710.
XX XX 22-AUG-2000; 2000US-00644848.
XX XX 24-AUG-2000; 2000WO-US023328.
XX XX 18-SEP-2000; 2000US-00664610.
XX XX 18-SEP-2000; 2000US-00665350.
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XX XX 08-NOV-2000; 2000WO-US030952.
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XX XX 01-JUN-2001; 2001WO-US017800.
XX XX 05-JUN-2001; 2001WO-US0874503.
XX XX 20-JUN-2001; 2001WO-US019692.

PR 29-JUN-2001; 2001WO-US021066.
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PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
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XX XX
XX XX (GETH ) GENENTECH INC.
XX XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-342038/32.
XX N-PSDB; ACA66550.
XX XX
XX Three hundred and five nucleic acids encoding secreted and transmembrane
XX PRO polypeptides, useful for the diagnosis, prevention and/or treatment
XX of tumors, such as adrenal, lung, colon, breast, prostate, rectal,
XX cervical or liver tumors.
XX XX
XX Claim 11; Fig 34; 708pp; English.
XX XX
XX The invention relates to three hundred and five nucleic acids encoding
XX PRO polypeptides (secreted and transmembrane). Methods and compositions
XX of the present invention are useful for the diagnosis, prevention and/or
XX treatment of tumors, such as adrenal, lung, colon, breast, prostate,
XX rectal, cervical or liver tumors. The PRO polypeptides are also useful
XX as molecular weight markers, or for chromosome identification. The PRO
XX genes are useful as hybridisation probes, or for screening libraries of
XX human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
XX therapy, particularly for replacing a defective gene. The present
XX sequence represents a human PRO polypeptide of the invention
XX XX
XX Sequence 440 AA;
XX XX
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Best Local Similarity 100.0%; Pred. No. 7,7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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XX XX
AC ABR99368;
XX XX
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XX XX
XX KW Human; PRO; secreted protein; transmembrane protein;
XX extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
XX chondrocyte; proliferation; differentiation; cartilage disorder;
XX bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
XX adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
XX liver; drug screening; transgenic animal; genetic analysis;
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KW antiarthritic; vulnerary; gene therapy.
XX Homo sapiens.
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Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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XX AC
XX ABR98758;
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DT 17-SEP-2003 (first entry)
XX
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XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
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KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
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OS Homo sapiens.
XX
PN US2003040064-A1.
XX
PD 27-FEB-2003.
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XX 26-JUN-2002; 2002US-00183008.
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Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
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KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
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XX Homo sapiens.
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PR 26-AUG-1998; 98US-0097952P.
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PR 26-AUG-1998; 98US-0097971P.
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Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGDCQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPQRQTIYFRDPRPLK 75
Db 32 SAALIPGDCQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPQRQTIYFRDPRPLK 91

Qy 76 DSRFQLNFSSELKSLVSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
Db 92 DSRFQLNFSSELKSLVSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151

Qy 136 DTAVEGEIEVNCATAMASKPATTIRWPKGN 165
Db 152 DTAVEGEIEVNCATAMASKPATTIRWPKGN 181

RESULT 43
ABR78243
ID ABR78243 standard; protein; 440 AA.
XX ABR78243;
AC ABR78243;
XX
DT 19-SEP-2003 (first entry)
XX
DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX
KW Human; PRO; secreted protein; transmembrane protein;
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extracellular domain; tumour necrosis factor-alpha; TNF-alpha; chondrocyte; proliferation; differentiation; cartilage disorder; bone disorder; arthritis; sports injury; cancer; tumour; diagnosis; adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix; liver; drug screening; transgenic animal; genetic analysis; antiarthritic; vulnery; gene therapy.

Homo sapiens.

US2003054474-A1.

20-MAR-2003.

22-JUL-2002; 2002US-00201530.

22-JUN-1998; 98US-0090254P.

02-JUN-1999; 99WO-US012252.

25-AUG-1999; 99US-00380137.

28-FEB-2001; 2001WO-US006520.

15-JAN-2002; 2002US-00052586.

(GETH) GENENTECH INC.

Baker KP, Chen J, Deenoyers L, Goddard A, Godowski EJ, Gurney AL;

Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

WPI; 2003-503631/47.

N-PSDB; ACF00116.

New secreted and transmembrane PRO polypeptides and nucleic acids, useful in gene therapy, or for preparing a medicament for treating a condition that is responsive to the PRO polypeptide or anti-PRO antibody.

Claim 11; Fig 34; 700pp; English.

The invention relates to human PRO secreted/transmembrane polypeptides (ABR78227-ABR78531) and nucleic acids encoding them (ACF00100-00404). The invention also relates to sequences at least 80% identical to the PRO nucleic acid and polypeptide sequences of the invention, recombinant vectors and host cells comprising a PRO nucleic acid, a method for the recombinant production of a PRO polypeptide, antibodies against a PRO polypeptide, and fusion proteins comprising a PRO polypeptide. Nucleic acids encoding PRO polypeptides of the invention were initially identified via homology screening using consensus sequences based on the extracellular domain sequences from known secreted proteins. Human cDNA libraries containing sequences of interest were identified using oligonucleotides based on the consensus sequences, and cDNA clones were isolated and characterised. The PRO polypeptides are useful for stimulating release of tumour necrosis factor-alpha (TNF-alpha) from human blood and may thus be used in the treatment of conditions in which enhanced TNF-alpha release would be beneficial. They are also useful for stimulating the proliferation or differentiation of chondrocytes and as disorders such as arthritis and sports injuries. The PRO polypeptides may be used in a method for detecting the presence of a tumour (e.g., an adrenal tumour, lung tumour, colon tumour, breast tumour, prostate tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This method involves comparing the level of expression of the PRO polypeptide in test and control samples, where a higher level of expression of PRO polypeptide in the test sample as compared to the control sample is indicative of the presence of a tumour. The PRO polypeptides are additionally useful for in drug screening to identify agonists and antagonists of PRO polypeptides. PRO nucleic acids are useful as hybridisation probes (for isolation of cDNA molecules), in chromosome and gene mapping, in the generation of antisense RNA and DNA and in gene therapy. The nucleic acids can also be used for mapping genes encoding PRO polypeptides, for genetic analysis of individuals with genetic disorders, and for generating either transgenic animals or knock-out animals which are useful in the development and screening of therapeutically useful compounds. Sequences ABR78227-ABR78531 represent the human PRO secreted/transmembrane polypeptides of the invention. Note: The sequence data for this patent is also available in electronic format from USPTO at seqdata.uspto.gov/sequence.html

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XX SQ Sequence 440 AA;
Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 32 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 44
ABU64926
ID ABU64926 standard; protein; 440 AA.
AC ABU64926;
XX
DT 15-MAY-2003 (first entry)
XX
DE Human secreted/transmembrane protein PRO355.
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW Cornelia de Lange syndrome; gene therapy; immune disorder;
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;
KW infertility; birth defect; premature aging; cardiac injury; AIDS; cancer;
KW diabetic complication.
XX
OS Homo sapiens.
XX
XX US2002173463-A1.
XX
PD 21-NOV-2002.
XX
XX 31-AUG-2001; 2001US-00944944.
XX
PR 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 16-DEC-1997; 97US-0069694P.
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PR 17-DEC-1997; 97US-0069873P.
PR 18-DEC-1997; 97US-0068017P.
PR 05-JAN-1998; 98US-0070440P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.
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PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 16-DEC-1998; 98US-0113296P.
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PR 02-JUN-1999; 99WO-US012252.
PR 28-JUL-1999; 99US-0146222P.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
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PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX
PA (GETH ) GENENTECH INC.
XX
PI Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E,
PI Gerritsen MB, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX
DR WPI; 2003-311003/30.
DR N-PSDB; ABX96814.
XX
XX New transmembrane polypeptides and polynucleotides useful for chromosome
PT identification, tissue typing, gene therapy, in chromosome and gene
PT mapping, or as molecular weight markers.
XX
PS Claim 12; Fig 24; 172pp; English.
XX
CC The invention relates to an isolated nucleic acid encoding a secreted/
CC transmembrane polypeptide (designated as PRO proteins). 15 PRO
CC polypeptides and their encoding polynucleotides are disclosed. Also
CC included are a vector comprising the PRO nucleic acid, a host cell
CC comprising the vector, a process for producing a PRO polypeptide (by
CC culturing the host cell under conditions for the expression of the PRO
CC polypeptide, and recovering the PRO polypeptide from the cell culture, an
CC isolated polypeptide having at least 80% amino acid sequence identity to
CC the PRO polypeptides, a chimaeric molecule comprising PRO fused to a
CC heterologous amino acid sequence and an antibody which specifically binds
CC to PRO. The PRO nucleotide sequences are useful as hybridisation probes,
CC in chromosome and gene mapping, in generating sense and antisense RNA or
CC DNA, in generating transgenic or knock-out animals which can be used in
CC the development and screening of therapeutically useful reagents, and in
CC gene therapy. The polypeptides may be used as molecular weight markers
CC for protein electrophoresis purposes. The PRO polypeptides and nucleic
CC acids may also be used for chromosome identification, and tissue typing.
CC PRO241 (identified as Chordin) is a candidate gene for Cornelia de Lange
CC syndrome. Other PRO proteins are variously implicated in immune
CC disorders, inflammatory disease, organ failure, atherosclerosis, cardiac
CC injury, infertility, birth defects, premature aging, cardiac injury,
CC AIDS, cancer and diabetic complications. The present sequence represents
CC a PRO protein
XX
SQ Sequence 440 AA;
Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 45
ABU84979
ID ABU84979 standard; protein; 440 AA.
XX
AC ABU84979;
XX
XX 30-JUN-2003 (first entry)
XX
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DE Novel human secreted and transmembrane protein PRO355.
XX Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
KW chondrocyte stimulator; chromosome mapping; gene mapping;
KW transgenic animal; knock-out animal; tumour.
XX Homo sapiens.
XX
PN US2003032114-A1.
XX
XX 13-FEB-2003.
XX
XX 20-JUN-2002; 2002US-00176919.
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XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
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Query Match 35.5%; Score 150; DB 6; Length 440;
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XX Homo sapiens.
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Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
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09-AUG-2003 (first entry)
Human secreted/transmembrane protein (PRO) #17.
Human; secreted and transmembrane protein; PRO; TNF-alpha;
tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
prostate tumour; rectal tumour; cervical tumour; liver tumour.

Homo sapiens.

US2003040054-A1.

27-FEB-2003.

20-JUN-2002; 2002US-00176479.

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RESULT 49
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ID ABUS8360 standard; protein; 440 AA.
XX
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AC ABUS8360;
XX
DT 14-APR-2003 (first entry)
XX
DE Novel human secreted protein PRO355.
XX
DE Human; antiinflammatory; antiarteriosclerotic; cardiant; gynecological;
XX anti-HIV; cytosolic; antidiabetic; BMP-agonist; BMP-Antagonist;
XX cytokine-agonist; cytokine-antagonist; gene-Therapy;
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;
KW infertility; birth defect; premature aging; AIDS; cancer;
KW diabetic complication.
XX
OS Homo sapiens.
XX
XX US2002150976-A1.
XX
XX 17-OCT-2002.
XX
XX 30-AUG-2001; 2001US-00943851.
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XX 03-DEC-1997; 97US-0067411P.
XX 11-DEC-1997; 97US-0069278P.
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XX 09-FEB-1998; 98US-0074086P.
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XX 25-FEB-1998; 98US-0075945P.
XX 16-SEP-1998; 98WO-US019330.
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XX 03-MAR-1999; 99US-00254311.
XX 02-JUN-1999; 99WO-US012252.
XX 28-JUL-1999; 99US-0146222P.
XX 15-SEP-1999; 99WO-US021090.
XX 30-NOV-1999; 99WO-US028313.
XX 30-NOV-1999; 99WO-US028409.
XX 01-DEC-1999; 99WO-US028301.
XX 16-DEC-1999; 99WO-US030095.
XX 11-FEB-2000; 2000WO-US003565.
XX 22-FEB-2000; 2000WO-US004414.
XX 02-MAR-2000; 2000WO-US005941.
XX 30-MAR-2000; 2000WO-US008439.
XX 22-MAY-2000; 2000WO-US014042.
XX 28-JUL-2000; 2000WO-US020710.
XX 01-DEC-2000; 2000WO-US032678.
XX 28-FEB-2001; 2001WO-US006520.
XX 25-MAY-2001; 2001US-00866028.
XX
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
XX Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
XX Hillan KJ, Kljavan IJ, Napier MA, Roy MA, Tumas D, Wood WT;
XX WPI; 2003-198285/19.
XX N-PSDB; ABX78468.
XX
XX New isolated PRO polypeptide and encoding nucleic acids, useful for the
XX diagnosis and treatment of disorders such as inflammatory disease,
XX atherosclerosis, cardiac injury, infertility, AIDS, cancer and diabetic
XX complications.

XX Claim 12; Fig 24; 171pp; English.
XX
XX The invention describes a novel isolated PRO polypeptide. The methods and
XX compositions of the present invention are useful for the diagnosis and
XX treatment of disorders such as inflammatory disease, organ failure,
XX atherosclerosis, cardiac injury, infertility, birth defects, premature
XX aging, AIDS, cancer, diabetic complications and mutations in general.
XX This is the amino acid sequence of a novel human secreted PRO protein
XX
SQ Sequence 440 AA;
Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;
QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDFRPLK 75
DB 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDFRPLK 91
QY 76 DSRFQLNFSSELKVLSTNVISDGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
DB 92 DSRFQLNFSSELKVLSTNVISDGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151
QY 136 DTAVEGEEIEVNCVTAMASKPATIRWPKGN 165
DB 152 DTAVEGEEIEVNCVTAMASKPATIRWPKGN 181
RESULT 50
ABUS8669
ID ABUS8669 standard; protein; 440 AA.
XX
AC ABUS8669;
DT
DT 09-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO355.
XX
KW Human; gene therapy; chondrocyte stimulation; TNF-alpha release;
KW chondrocyte proliferation; chondrocyte differentiation; tumour detection;
KW tissue typing.
XX
OS Homo sapiens.
XX
XX US2003036133-A1.
XX
XX 20-FEB-2003.
XX
XX 27-JUN-2002; 2002US-00184630.
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XX 18-SEP-1997; 97US-0059263P.
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XX 17-OCT-1997; 97US-0062250P.
XX 21-OCT-1997; 97US-0063486P.
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PR 07-OCT-1998; 98US-00168978.

Query Match      35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 76 DSRFQLNFSSELKVLSTNNVSIISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIQK 135
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Qy 136 DTAVEGEIEVNCCTAMASKPATIRWPKGN 165
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Db 152 DTAVEGEIEVNCCTAMASKPATIRWPKGN 181

RESULT 51
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ID ABU83364 standard; protein; 440 AA.
XX AC ABU83364;
XX AC
XX DT 11-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) #17.
XX KW Human; secreted and transmembrane protein; PRO; chromosome mapping;
XX KW gene mapping; gene therapy; tumour necrosis factor alpha; TNF-alpha;
XX KW chondrocyte; tumour.
XX OS Homo sapiens.
XX PN US2003036134-A1.
XX PD 20-FEB-2003.
XX PF 27-JUN-2002; 2002US-00184631.
XX 18-SEP-1997; 97US-0059263P.
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Query Match 35.5%; Score 150; DB 6; Length 440;		
Best Local Similarity 100.0%; Pred No. 7,7e-135;		
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
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Db	32	SAAALIPTGGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNTQTIYFRDPRPLK 91
QY	76	DSRFQLLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 135
Db	92	DSRFQLLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 151
QY	136	DTAVEGEIEVNCMTAMASKPATTTIRWPKGN 165
Db	152	DTAVEGEIEVNCMTAMASKPATTTIRWPKGN 181
RESULT 52		
ABO06165		
ID	ABO06165 standard; protein; 440 AA.	
AC	ABO06165;	
XX		
DT	13-AUG-2003 (first entry)	
XX		
DE	Novel human secreted and transmembrane protein PRO355.	
XX		
KW	Human; secreted and transmembrane protein; PRO; gene therapy;	
KW	chondrocyte stimulator; chromosome mapping; gene mapping;	
KW	transgenic animal; knockout animal; tissue typing;	
KW	chondrocyte proliferation; chondrocyte differentiation;	
XX	tumour necrosis factor-alpha stimulation; TNF-alpha stimulation.	
OS	Homo sapiens.	
XX		
PN	US2003022294-A1.	
XX		
PD	30-JAN-2003.	
XX		
PF	19-JUN-2002; 2002US-00175738.	
XX		
PR	18-SEP-1997;	97US-0059263P.
PR	18-SEP-1997;	97US-0059266P.
PR	17-OCT-1997;	97US-0062250P.
PR	21-OCT-1997;	97US-0063486P.
PR	24-OCT-1997;	97US-0063120P.
PR	24-OCT-1997;	97US-0063121P.
PR	28-OCT-1997;	97US-0063540P.
PR	28-OCT-1997;	97US-0063541P.
PR	28-OCT-1997;	97US-0063544P.
PR	28-OCT-1997;	97US-0063564P.
PR	29-OCT-1997;	97US-0063734P.
PR	31-OCT-1997;	97US-0063870P.
PR	31-OCT-1997;	97US-0064103P.
PR	13-NOV-1997;	97US-0065311P.
PR	21-NOV-1997;	97US-0066120P.
PR	24-NOV-1997;	97US-0066466P.
PR	24-NOV-1997;	97US-0066772P.
PR	11-DEC-1997;	97US-0069335P.

PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
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PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
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PR 06-MAY-1998; 98US-0084414P.
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PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
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PR 26-JUN-1998; 98US-0090862P.
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PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
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PR 24-JUL-1998; 98US-0094006P.
PR 10-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
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PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
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PR 26-AUG-1998; 98US-0097952P.
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PR 03-SEP-1998; 98US-0099602P.
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PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
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PR 18-SEP-1998; 98US-0101068P.
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PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.

PR	24-SEP-1998;	98US-0101922P.		PR	24-NOV-1997;	97US-006466P.
PR	25-SEP-1998;	98US-0101786P.		PR	24-NOV-1997;	97US-0066772P.
PR	29-SEP-1998;	98US-0102207P.		PR	11-DEC-1997;	97US-0069335P.
PR	29-SEP-1998;	98US-0102240P.		PR	12-DEC-1997;	97US-0069425P.
PR	23-SEP-1998;	98US-0102330P.		PR	17-DEC-1997;	97US-0069870P.
PR	29-SEP-1998;	98US-0102331P.		PR	18-DEC-1997;	97US-0068017P.
PR	30-SEP-1998;	98US-0102487P.		PR	10-MAR-1998;	98US-0077450P.
PR	30-SEP-1998;	98US-0102570P.		PR	11-MAR-1998;	98US-0077632P.
PR	30-SEP-1998;	98US-0102571P.		PR	11-MAR-1998;	98US-0077649P.
PR	01-OCT-1998;	98US-0102684P.		PR	20-MAR-1998;	98US-0078866P.
PR	01-OCT-1998;	98US-0102687P.		PR	20-MAR-1998;	98US-0078939P.
PR	02-OCT-1998;	98US-0102965P.		PR	27-MAR-1998;	98US-0079664P.
PR	06-OCT-1998;	98US-0103258P.		PR	27-MAR-1998;	98US-0079786P.
PR	06-OCT-1998;	98US-0103449P.		PR	31-MAR-1998;	98US-0080107P.
Query Match 35.5%; Score 150; DB 6; Length 440;				PR	01-APR-1998;	98US-0080194P.
Best Local Similarity 100.0%; Pred. NO. 7.7e-135;				PR	01-APR-1998;	98US-0080327P.
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				PR	01-APR-1998;	98US-0080333P.
				PR	08-APR-1998;	98US-0081049P.
Qy	16	SAALIPFGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75		PR	08-APR-1998;	98US-0081070P.
				PR	09-APR-1998;	98US-0081195P.
Db	32	SAALIPFGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91		PR	15-APR-1998;	98US-0081838P.
				PR	21-APR-1998;	98US-0082568P.
Qy	76	DSRFQLLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135		PR	21-APR-1998;	98US-0082569P.
				PR	22-APR-1998;	98US-0082704P.
Db	92	DSRFQLLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151		PR	22-APR-1998;	98US-0082797P.
				PR	28-APR-1998;	98US-0083322P.
Qy	136	DTAVEGEIEIVNCTAMASKPATIRWFKGN 165		PR	28-APR-1998;	98US-0083495P.
				PR	23-APR-1998;	98US-0083496P.
Db	152	DTAVEGEIEIVNCTAMASKPATIRWFKGN 181		PR	29-APR-1998;	98US-0083499P.
				PR	29-APR-1998;	98US-0083559P.
RESULT 53				PR	05-MAY-1998;	98US-0084366P.
ABR59201	ID	ABR59201 standard; protein; 440 AA.		PR	06-MAY-1998;	98US-0084414P.
XX	AC	ABR59201;		PR	07-MAY-1998;	98US-0084639P.
DT	28-JUL-2003	(first entry)		PR	07-MAY-1998;	98US-0084640P.
XX	Human secreted polypeptide PRO355, SEQ ID NO:34.			PR	07-MAY-1998;	98US-0084643P.
DE	Human; PRO; secreted protein; transmembrane protein;			PR	15-MAY-1998;	98US-0085580P.
XX	extracellular domain; tumour necrosis factor-alpha; TNF-alpha;			PR	15-MAY-1998;	98US-0085582P.
KW	chondrocyte; proliferation; differentiation; cartilage disorder;			PR	15-MAY-1998;	98US-0085700P.
KW	bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;			PR	18-MAY-1998;	98US-0086023P.
KW	adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;			PR	22-MAY-1998;	98US-0086392P.
KW	liver; drug screening; transgenic animal; genetic analysis;			PR	22-MAY-1998;	98US-0086486P.
KW	antiarthritic; vulnery; gene therapy.			PR	28-MAY-1998;	98US-0087098P.
OS	Homo sapiens.			PR	28-MAY-1998;	98US-0087208P.
XX	US2003027275-A1.			PR	02-JUN-1998;	98US-0087609P.
PN	06-FEB-2003.			PR	02-JUN-1998;	98US-0087759P.
XX	20-JUN-2002; 2002US-00176918.			PR	03-JUN-1998;	98US-0087827P.
XX	18-SEP-1997; 97US-0059263P.			PR	04-JUN-1998;	98US-0088028P.
PR	18-SEP-1997; 97US-0059266P.			PR	04-JUN-1998;	98US-0088029P.
PR	17-OCT-1997; 97US-0062250P.			PR	04-JUN-1998;	98US-0088033P.
PR	21-OCT-1997; 97US-0063486P.			PR	04-JUN-1998;	98US-0088326P.
PR	24-OCT-1997; 97US-0063120P.			PR	05-JUN-1998;	98US-0088167P.
PR	24-OCT-1997; 97US-0063121P.			PR	05-JUN-1998;	98US-0088202P.
PR	28-OCT-1997; 97US-0063540P.			PR	05-JUN-1998;	98US-0088212P.
PR	28-OCT-1997; 97US-0063541P.			PR	05-JUN-1998;	98US-0088217P.
PR	28-OCT-1997; 97US-0063544P.			PR	05-JUN-1998;	98US-0088655P.
PR	28-OCT-1997; 97US-0063564P.			PR	10-JUN-1998;	98US-0088722P.
PR	29-OCT-1997; 97US-0063734P.			PR	10-JUN-1998;	98US-0088738P.
PR	31-OCT-1997; 97US-0063870P.			PR	10-JUN-1998;	98US-0088740P.
PR	31-OCT-1997; 97US-0064103P.			PR	10-JUN-1998;	98US-0088811P.
PR	13-NOV-1997; 97US-0065311P.			PR	10-JUN-1998;	98US-0088824P.
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PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089922P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
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PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
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PR 26-JUN-1998; 98US-0090862P.
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PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091632P.
PR 02-JUL-1998; 98US-0091632P.
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PR 04-AUG-1998; 98US-0095282P.
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PR 10-AUG-1998; 98US-0096012P.
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PR 18-AUG-1998; 98US-0096949P.
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PR 26-AUG-1998; 98US-0097952P.
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PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
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PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
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PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101475P.

PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
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PR 24-SEP-1998; 98US-0101743P.
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PR 25-SEP-1998; 98US-0101786P.
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PR 30-SEP-1998; 98US-0102570P.
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PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7,7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 91
Qy 76 DSRFQLNFSSELKVLSTNVISIDEGRYECOLYTDPPQESYTTITVLVPPNLMIDIQ 135
Db 92 DSRFQLNFSSELKVLSTNVISIDEGRYECOLYTDPPQESYTTITVLVPPNLMIDIQ 151
Qy 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181

RESULT 54
ABO09263
ID ABO09263 standard; protein; 440 AA.
XX ABO09263;
XX 17-AUG-2003 (first entry)
DT Human secreted/transmembrane protein (PRO) #17.
DE Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX Homo sapiens.
OS
XX US2003027324-A1.
XX 06-FEB-2003.
XX 21-JUN-2002; 2002US-00176991.
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
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PR 28-OCT-1997; 97US-0063564P.
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PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
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PR 24-NOV-1997; 97US-0066772P.
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PR 12-DEC-1997; 97US-00694255P.
PR 17-DEC-1997; 97US-00698707P.
PR 18-DEC-1997; 97US-00680117P.
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PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
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PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
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PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
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PR 15-JAN-2002; 2002US-00052586.
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(GETH) GENENTECH INC.

Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

WPI; 2003-402071/38.
N-PSDB; ACD25374.

New secreted and transmembrane PRO polypeptides and nucleic acids, useful
in gene therapy, chromosome identification, tissue typing, for detecting
the presence of tumor in a mammal, or as hybridization probes in gene
mapping.

Claim 11; Fig 34; 707pp; English.

The invention describes a novel isolated PRO polypeptide. The PRO
polypeptide or anti-PRO antibody is useful for preparing a medicament for
treating a condition that is responsive to the PRO polypeptide or anti-
PRO antibody. The PRO nucleotide sequences are useful as hybridisation
probes in chromosome and gene mapping, or in generating antisense RNA and
DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in
assays to identify other proteins or molecules involved in binding

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CC reaction, to generate transgenic animals or knockout animals, which in
CC turn are useful in the development and screening of therapeutically
CC useful reagents, for chromosome identification, and tissue typing. The
CC PRO polypeptides and nucleic acid molecules are also useful for detecting
CC the presence of tumour in a mammal, stimulating proliferation or
CC differentiation of chondrocyte cells, stimulating the release of tumour
CC necrosis factor-alpha from human blood, in gene therapy, or as molecular
CC weight markers for protein electrophoresis purposes. The anti-PRO
CC antibodies may be used in diagnostic assays for PRO, or for the affinity
CC purification of PRO from recombinant cell culture or natural sources.
CC This is the amino acid sequence of a novel human secreted and
CC transmembrane PRO polypeptide
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KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
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PR	30-SEP-1998;	98US-0102570P;
PR	30-SEP-1998;	98US-0102571P;
PR	01-OCT-1998;	98US-0102684P;
PR	01-OCT-1998;	98US-0102687P;
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PR	06-OCT-1998;	98US-0103449P;
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DT	05-AUG-2003	(first entry)
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KW	extracellular domain; tumour	
KW	chondrocyte; proliferation;	
KW	bone disorder; arthritis; spo	
KW	adrenal tumour; lung; colon;	
KW	liver; drug screening; transg	
KW	antiarthritic; vulnery; gen	
OS	Homo sapiens.	
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PN	US2003036148-A1.	
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PD	20-FEB-2003.	
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PF	02-JUL-2002; 2002US-00187743.	
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PR	18-SEP-1997;	97US-0059263P;
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PR	24-OCT-1997;	97US-0063120P;
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PR 21-NOV-1997; 97US-0066120P.
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PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
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PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
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PR 17-AUG-1998; 98US-0096757P.
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PR 23-SEP-1998; 98US-0101472P.

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PR 25-JUN-1998;	98US-0090694P.	PR 02-OCT-1998;	98US-0102965P.
PR 25-JUN-1998;	98US-0090695P.	PR 06-OCT-1998;	98US-0103258P.
PR 25-JUN-1998;	98US-0090696P.	PR 06-OCT-1998;	98US-0103449P.
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PR 01-JUL-1998;	98US-0091359P.		
PR 02-JUL-1998;	98US-0091544P.	32 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDSDSVIQLNPNRQTIYERDRPLX 91	
PR 02-JUL-1998;	98US-0091486P.		
PR 02-JUL-1998;	98US-0091626P.	76 DSRFQLNFSSELKVLNVTNSISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIQOK 135	
PR 02-JUL-1998;	98US-0091628P.		
PR 02-JUL-1998;	98US-0091632P.	92 DSRFQLNFSSELKVLNVTNSISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIQOK 151	
PR 24-JUL-1998;	98US-0094006P.		
PR 04-AUG-1998;	98US-0095282P.	136 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 165	
PR 10-AUG-1998;	98US-0095998P.		
PR 10-AUG-1998;	98US-0096012P.	152 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 181	
PR 17-AUG-1998;	98US-0096757P.		
PR 17-AUG-1998;	98US-0096766P.		
PR 17-AUG-1998;	98US-0096867P.		
PR 17-AUG-1998;	98US-0096891P.	RESULT 59	
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PR 18-AUG-1998;	98US-0096949P.	ID ABO13682 standard; protein; 440 AA.	
PR 18-AUG-1998;	98US-0096959P.	XX	
PR 18-AUG-1998;	98US-0097022P.	AC ABO13682;	
PR 26-AUG-1998;	98US-0097952P.	XX	
PR 26-AUG-1998;	98US-0097954P.	DT 28-AUG-2003 (first entry)	
PR 26-AUG-1998;	98US-0097971P.	XX	
PR 26-AUG-1998;	98US-0097974P.	Human secreted/transmembrane protein (PRO) #17.	
PR 26-AUG-1998;	98US-0098014P.	XX	
PR 01-SEP-1998;	98US-0098716P.	Human; secreted and transmembrane protein; PRO; TNF-alpha;	
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PR 02-SEP-1998;	98US-0098821P.	XX	
PR 02-SEP-1998;	98US-0098843P.	OS Homo sapiens.	
PR 09-SEP-1998;	98US-0099602P.	XX	
PR 10-SEP-1998;	98US-0099741P.	XX	
PR 10-SEP-1998;	98US-0099754P.	PN US2003044916-A1.	
PR 10-SEP-1998;	98US-0099763P.	XX	
PR 10-SEP-1998;	98US-0099812P.	PD 06-MAR-2003.	
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PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.

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PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7,7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIYFRDRPLK 75
Db 32 SAAALPTGQQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIYFRDRPLK 91
Qy 76 DSRFQLNFSSELKVLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 135
Db 92 DSRFQLNFSSELKVLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 60
ABU57246
ID ABU57246 standard; protein; 440 AA.
AC ABU57246;
XX
XX 04-APR-2003 (first entry)
XX Human PRO355 protein.
XX Human; antiinflammatory; antiarteriosclerotic; cardiant;
XX anti-infectility; anti-HIV; cytostatic; antidiabetic; transmembrane;
XX antiinflammatory; anti-HIV; antiarteriosclerotic; cardiant; infectility;
XX anti-infectility; cytostatic; antidiabetic; gene therapy; birth defect;
XX inflammatory disease; organ failure; atherosclerosis; cardiac injury;
XX premature aging; AIDS; cancer; diabetic complication.
XX
XX Homo sapiens.
XX
XX US2002142958-A1.
XX
XX 03-OCT-2002.
XX
XX 30-AUG-2001; 2001US-00943762.
XX
XX 16-SEP-1998; 98WO-US019330.
XX 01-DEC-1998; 98WO-US025108.
XX 22-JUN-1999; 99WO-US012252.
XX 15-SEP-1999; 99WO-US021090.
XX 30-NOV-1999; 99WO-US028313.
XX 30-NOV-1999; 99WO-US028409.
XX 01-DEC-1999; 99WO-US028301.
XX 16-DEC-1999; 99WO-US030095.
XX 11-FEB-2000; 2000WO-US003565.
XX 22-FEB-2000; 2000WO-US004414.
XX 02-MAR-2000; 2000WO-US005841.
XX 30-MAR-2000; 2000WO-US008439.
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PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX (GETH ) GENENTECH INC.
PA Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin LJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX WPI; 2003-174140/17.
DR N-PSDB; ABX77101.
XX
XX New secreted and transmembrane nucleic acids and polypeptides, designated
PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,
PT cardiac injury, infertility, birth defects, premature aging, AIDS, or
PT cancer.
XX
XX Claim 1; Fig 24; 173pp; English.
XX
XX This invention relates to a nucleotide sequence encoding an isolated
CC secreted and/or transmembrane protein. The nucleotide sequences of the
CC invention may have antiinflammatory, antiarteriosclerotic, cardiant, anti
CC -infectility, anti-HIV, cytostatic and antidiabetic activities and may be
CC used in gene therapy. The nucleic acids and polypeptides are useful for
CC treating inflammatory diseases, organ failure, atherosclerosis, cardiac
CC injury, infertility, birth defects, premature aging, AIDS, cancer, or
CC diabetic complications. The nucleic acids are useful as hybridisation
CC probes, in chromosome and gene mapping, and in generating antisense RNA
CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,
CC biosensors or bioreactors. Both are useful in tissue typing. The present
CC sequence represents a protein encoded by the nucleic acids of the
CC invention
XX
XX Sequence 440 AA;
XX
XX Query Match 35.5%; Score 150; DB 6; Length 440;
XX Best Local Similarity 100.0%; Pred. No. 7,7e-135;
XX Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIYFRDRPLK 75
Db 32 SAAALPTGQQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIYFRDRPLK 91
Qy 76 DSRFQLNFSSELKVLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 135
Db 92 DSRFQLNFSSELKVLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 61
ABU65585
ID ABU65585 standard; protein; 440 AA.
XX
XX ABU65585;
XX
XX 19-MAY-2003 (first entry)
XX
XX Human secreted/transmembrane protein, SEQ ID 34.
XX
XX Human; PRO; secreted protein; transmembrane protein; cytostatic;
XX antiarthritic; osteopathic; adrenal tumour; lung tumour; colon tumour;
XX breast tumour; prostate tumour; rectal tumour; cervical tumour;
XX liver tumour; TNF-alpha release; arthritis; tumour necrosis factor alpha;
XX chondrocyte cell; bone disorder; cartilage disorder; sports injury.
XX
XX Homo sapiens.
XX
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PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0088909P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
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PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
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PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
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PR 24-JUN-1998; 98US-0090461P.
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PR 24-JUN-1998; 98US-0090340P.
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PR 26-JUN-1998; 98US-00105413.
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PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
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PR 02-JUL-1998; 98US-0091828P.
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PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 26-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
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PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.

PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
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PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
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PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7, 7e-135; Mismatches 0; Indels 0; Gaps 0;
Matches 150; Conservative 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
Db |||||
32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTPQESYTTITVLVPPRLMIDIQ 135
Db |||||
92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTPQESYTTITVLVPPRLMIDIQ 151
QY 136 DTAVEGEIEVNCTAMASKPATTIRWFKGN 165
Db |||||
152 DTAVEGEIEVNCTAMASKPATTIRWFKGN 181

RESULT 63

ABO03620
ID ABO03620 standard; protein; 440 AA.

XX ABO03620;
XX
DT 10-AUG-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) #17.

XX Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.

XX US2003036128-A1.
XX 20-FEB-2003.
XX 27-JUN-2002; 2002US-00184616.
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063420P.
PR 28-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 28-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
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PR 11-DEC-1997; 97US-0069335P.
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PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
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PR 01-APR-1998; 98US-0080327P.
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PR 08-APR-1998; 98US-0081049P.
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PR 22-APR-1998; 98US-0082797P.
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PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
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PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
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PR 18-MAY-1998; 98US-0086023P.
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PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.

PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
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PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
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PR 26-JUN-1998; 98US-0090862P.
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PR 01-JUL-1998; 98US-0091359P.
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PR 02-JUL-1998; 98US-0091486P.
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PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.

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PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
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PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
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PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-010207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102664P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALAIPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAALAIPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91

Qy 76 DSRFQLLNFSSELKVLNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLLNFSSELKVLNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIQK 151

Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWPKGN 181

RESULT 64
ABR67068
ID ABR67068 standard; protein; 440 AA.
XX AC
XX ABR67068;
XX DT
XX 05-AUG-2003 (first entry)
XX DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX KW Human; PRO; secreted protein; transmembrane protein;
KW KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
```

KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnerary; gene therapy.

XX Homo sapiens.

XX OS US2003027266-A1.

XX PD 06-FEB-2003.

XX PF 18-JUN-2002; 2002US-00174588.

XX PR 18-SEP-1997; 97US-0059263P.

PR 18-SEP-1997; 97US-0059266P.

PR 17-OCT-1997; 97US-0062250P.

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PR 05-MAY-1998; 98US-0084366P.

PR 06-MAY-1998; 98US-0084414P.

PR 07-MAY-1998; 98US-0084639P.

PR 07-MAY-1998; 98US-0084640P.

PR 15-MAY-1998; 98US-0084643P.

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PR 15-MAY-1998; 98US-0085700P.

PR 18-MAY-1998; 98US-0086023P.

PR 22-MAY-1998; 98US-0086392P.

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PR 28-MAY-1998; 98US-0087098P.

PR 28-MAY-1998; 98US-0087208P.

PR 02-JUN-1998; 98US-0087609P.

PR 03-JUN-1998; 98US-0087759P.

PR 03-JUN-1998; 98US-0087827P.

XX OS Homo sapiens.
XX AC US2003054483-A1.
XX XX 20-MAR-2003.
XX XX 26-JUL-2002; 2002US-00205907.
XX PF 05-JUN-2000; 2000US-0209832P.
XX PR 28-FEB-2001; 2001WO-US006520.
XX PR 15-JAN-2002; 2002US-00052586.
XX XX (GETH) GENENTECH INC.
XX PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX XX WPI: 2003-479876/45.
XX DR N-PSDB; ACD21185.
XX XX Three hundred and five nucleic acids encoding PRO polypeptides, useful
XX PT for the manufacture of a medicament for diagnosing or treating tumor or
XX PT for measuring or detecting expression of an associated gene.
XX PS Claim 11; Fig 34; 699pp; English.
XX CC The invention discloses human nucleic acids encoding secreted and
XX CC transmembrane (PRO) polypeptides, with or without their associated signal
XX CC peptide. Also disclosed is an antibody that specifically binds to the PRO
XX CC polypeptide, a method for stimulating the release of tumor necrosis
XX CC factor alpha (TNF-alpha) from human blood by contacting the blood with a
XX CC PRO polypeptide, a method for stimulating the proliferation or
XX CC differentiation of chondrocyte cells by contacting the cells with a PRO
XX CC polypeptide, a method for detecting the presence of a tumor in a mammal
XX CC and an oligonucleotide probe derived from any of the PRO nucleotide
XX CC sequences. The nucleotide sequences are useful as probes, in chromosome
XX CC and gene mapping, in generating antisense RNA and DNA, in preparing PRO
XX CC polypeptides by recombinant techniques and in gene therapy (e.g. for
XX CC replacement of defective gene). The PRO polypeptides are useful as
XX CC molecular weight markers for protein electrophoresis purposes, for
XX CC chromosome identification, as chromosome markers, as therapeutic agents,
XX CC for stimulating the release of TNF-alpha from human blood, for
XX CC stimulating the proliferation or differentiation of chondrocytes and
XX CC detecting the presence, prevention and/or treatment of a tumor, such as
XX CC adrenal, lung, colon, breast, prostate, rectal, cervical or liver tumour.
XX CC The PRO polypeptides and nucleic acids may also be used diagnostically
XX CC for tissue typing. The sequence presented is a PRO polypeptide of the
XX CC invention. Note: The sequence data for this patent can also be obtained
XX CC in electronic format directly from USPTO at
XX CC seqdata.uspto.gov/sequence.html
XX SQ Sequence 440 AA;
Query March 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 32 SAALIPFGDQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFFSSELKSLTNVSIISDEGRYFQQLYTDPPQESYTTITVLVPPRNLMIDIQK 135
Db 92 DSRFQLNFFSSELKSLTNVSIISDEGRYFQQLYTDPPQESYTTITVLVPPRNLMIDIQK 151
Qy 136 DTAVEGEIEVNCAMASKPATTTIRWPKGN 165
Db 152 DTAVEGEIEVNCAMASKPATTTIRWPKGN 181
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ABUS5952

ID ABUS5952 standard; protein; 440 AA.
XX AC ABUS5952;
XX XX 26-MAR-2003 (first entry)
XX DE Human secreted/transmembrane protein, PRO355.
XX KW Human; secreted protein; transmembrane protein; PRO; antiarthritic;
XX KW vulnery; tumour necrosis factor-alpha; chondrocyte cell proliferation;
XX KW chondrocyte cell differentiation; tumour; adrenal tumour; lung tumour;
XX KW colon tumour; breast tumour; prostate tumour; rectal tumour;
XX KW cervical tumour; liver tumour; bone disorder; cartilage disorder;
XX KW arthritis; sports injury.
XX OS Homo sapiens.
XX XX US2003022298-A1.
XX PN 30-JAN-2003.
XX PD 20-JUN-2002; 2002US-00176913.
XX PF 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 21-OCT-1997; 97US-0063486P.
XX PR 24-OCT-1997; 97US-0063120P.
XX PR 24-OCT-1997; 97US-0063121P.
XX PR 28-OCT-1997; 97US-0063540P.
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XX PR 31-OCT-1997; 97US-0064103P.
XX PR 05-NOV-1997; 97WO-US020069.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 21-NOV-1997; 97US-0066120P.
XX PR 24-NOV-1997; 97US-0066466P.
XX PR 24-NOV-1997; 97US-0066772P.
XX PR 11-DEC-1997; 97US-0069335P.
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XX PR 08-APR-1998; 98US-0081049P.
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XX PR 29-APR-1998; 98US-0083559P.
XX PR 05-MAY-1998; 98US-0084366P.
XX PR 06-MAY-1998; 98US-0084414P.
XX PR 07-MAY-1998; 98US-0084639P.
XX PR 07-MAY-1998; 98US-0084640P.

ABU65280
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XX 16-MAY-2003 (first entry)
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XX Human; PRO; cytostatic; chromosome mapping; gene mapping;
KW protein electrophoresis; tumour necrosis factor-alpha; TNF-alpha; blood;
KW chondrocyte differentiation; chondrocyte proliferation; tumour.
XX
XX Homo sapiens.
XX
XX US2003032102-A1.
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XX 13-FEB-2003.
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XX 17-JUN-2002; 2002US-00173597.
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PR 07-OCT-1998; 98US-00168978.

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Best Local Similarity 100.0%; Pred. No. 7.7e-135;
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Db 32 SAALAIPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFFSSSELKSLTNVNSISDEGRYFCQLYTDPPQSSYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFFSSSELKSLTNVNSISDEGRYFCQLYTDPPQSSYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWPKGN 181
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ABU95225
ID ABU95225 standard; protein; 440 AA.
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AC ABU95225;
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DT 24-JUL-2003 (first entry)
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DE Novel human secreted and transmembrane protein PRO355.
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KW Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
KW chromosome mapping; gene mapping; transgenic animal; knock-out animal;
XX tumour.
XX
OS Homo sapiens.
XX
PN US2003036117-A1.
XX
PD 20-FEB-2003.
XX
PF 21-JUN-2002; 2002US-00176751.
XX
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PR 11-DEC-1997; 97US-0069335P.
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PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
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Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7,7e-135;

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Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 91

Qy 76 DSRFQLNFSSELKSLTNVSI SDGRYFCOLYTDPPQESYTTITVLVPPRLMIDIQ 135

Db 92 DSRFQLNFSSELKSLTNVSI SDGRYFCOLYTDPPQESYTTITVLVPPRLMIDIQ 151

Qy 136 DTAVEGEIEVNCNTAMASKPATIRWPKGN 165

Db 152 DTAVEGEIEVNCNTAMASKPATIRWPKGN 181

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ID ABU71128 standard; protein; 440 AA.
XX AC ABU71128;
XX DT 10-JUN-2003 (first entry)
XX DE Human PRO355 protein.
XX KW Human; PRO; secreted; transmembrane; cytotstatic; TNF-alpha; blood;
KW tumour necrosis factor alpha release; chondrocyte cell; proliferation;
XX differentiation; tumour; gene therapy.
XX OS Homo sapiens.
XX PN US2003036143-A1.
XX PD 20-FEB-2003.
XX PF 02-JUL-2002; 2002US-00187600.
XX PR 18-SEP-1997; 97US-0059263P.
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PR 30-SEP-1998; 98US-0102487P.
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PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
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PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 32 SAALITPGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 76 DSRFQLNFSSELKVLSTNVISDEGRYFCOLYTDPPQESYTTITVLVPPNLMIDIQK 135
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 92 DSRFQLNFSSELKVLSTNVISDEGRYFCOLYTDPPQESYTTITVLVPPNLMIDIQK 151
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||
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RESULT 70
ABO07738
ID ABO07738 standard; protein; 440 AA.
XX AC ABO07738;
XX DT 18-AUG-2003 (first entry)
XX DE Human PRO polypeptide #17.
XX KW Human; PRO; secreted polypeptide; transmembrane polypeptide; cytosstatic;
XX KW tumour necrosis factor-alpha; TNF-alpha; blood; tumour; chondrocyte cell;
XX OS cancer; adrenal; lung; colon; breast; prostate; cervix; liver.
XX OS Homo sapiens.
XX PN US2003032130-A1.
XX PD 13-FEB-2003.
XX PF 28-JUN-2002; 2002US-00184635.
XX PR 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 21-OCT-1997; 97US-0063486P.
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XX PR 17-DEC-1997; 97US-0069870P.
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Db 152 DTAVEGEIEVNCTAMASKPATTIRWFKGN 181

RESULT 71

ABR69979

ID ABR69979 standard; protein; 440 AA.

XX AC ABR69979;

XX DT 19-AUG-2003 (first entry)

XX DE Human secreted polypeptide PRO355, SEQ ID NO:34.

XX KW Human; PRO; secreted protein; transmembrane protein;

XX KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;

XX KW chondrocyte; proliferation; differentiation; cartilage disorder;

XX KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;

XX KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;

XX KW liver; drug screening; transgenic animal; genetic analysis;

XX KW antiarthritic; vulnery; gene therapy.

XX OS Homo sapiens.

XX PN US2003032138-A1.

XX PD 13-FEB-2003.

XX PF 02-JUL-2002; 2002US-00187885.

XX PR 24-JUN-1998; 98US-0090540P.

XX PR 16-SEP-1998; 98WO-US019330.

XX PR 07-OCT-1998; 98WO-US021141.

XX PR 01-DEC-1998; 98WO-US025108.

XX PR 08-MAR-1999; 99WO-US005028.

XX PR 14-MAY-1999; 99WO-US010733.

XX PR 02-JUN-1999; 99WO-US012252.

XX PR 26-JUL-1999; 99US-0145698P.

XX PR 28-AUG-1999; 99US-00380137.

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XX PR 15-SEP-1999; 99WO-US021090.

XX PR 15-SEP-1999; 99WO-US021547.

XX PR 30-NOV-1999; 99WO-US028313.

XX PR 30-NOV-1999; 99WO-US028409.

XX PR 01-DEC-1999; 99WO-US028301.

XX PR 05-JAN-2000; 2000WO-US000219.

XX PR 06-JAN-2000; 2000WO-US000376.

XX PR 11-FEB-2000; 2000WO-US003565.

XX PR 18-FEB-2000; 2000WO-US004341.

XX PR 18-FEB-2000; 2000WO-US004342.

XX PR 22-FEB-2000; 2000WO-US004414.

XX PR 24-FEB-2000; 2000WO-US004914.

XX PR 24-FEB-2000; 2000WO-US005004.

XX PR 01-MAR-2000; 2000WO-US005601.

XX PR 02-MAR-2000; 2000WO-US005841.

XX PR 10-MAR-2000; 2000WO-US006319.

XX PR 15-MAR-2000; 2000WO-US006884.

XX PR 21-MAR-2000; 2000WO-US007532.

XX PR 30-MAR-2000; 2000WO-US008439.

XX PR 17-MAY-2000; 2000WO-US013705.

XX PR 22-MAY-2000; 2000WO-US014042.

XX PR 30-MAY-2000; 2000WO-US014941.

XX PR 02-JUN-2000; 2000WO-US015264.

XX PR 28-JUL-2000; 2000WO-US020710.

XX PR 24-AUG-2000; 2000WO-US023328.

XX PR 08-NOV-2000; 2000WO-US030952.

XX PR 01-DEC-2000; 2000WO-US032678.

XX PR 28-DEC-2000; 2000WO-US034956.

XX PR 28-FEB-2001; 2001WO-US006520.

PR 01-JUN-2001; 2001WO-US017800.

PR 20-JUN-2001; 2001WO-US019692.

PR 29-JUN-2001; 2001WO-US021066.

PR 09-JUL-2001; 2001WO-US021735.

PR 29-AUG-2001; 2001WO-US027099.

PR 15-JAN-2002; 2002US-00052586.

XX (GETH) GENENTECH INC.

XX PA Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;

XX PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

XX DE WPI; 2003-341977/32.

XX DR N-PSDB; ACC91010.

XX PT New secreted and transmembrane PRO polypeptide useful in preparing a

XX PT medicament for treating a condition that is responsive to the PRO

XX PT polypeptide or anti-PRO antibody.

XX PS Claim 11; Fig 34; 707pp; English.

XX CC The invention relates to human PRO secreted/transmembrane polypeptides

XX CC (ABR69963-ABR70267) and nucleic acids encoding them (ACC90994-ACC91298).

XX CC The invention also relates to sequences at least 80% identical to the PRO

XX CC nucleic acid and polypeptide sequences of the invention, recombinant

XX CC vectors and host cells comprising a PRO nucleic acid, a method for the

XX CC recombinant production of a PRO polypeptide, antibodies against a PRO

XX CC polypeptide, and fusion proteins comprising a PRO polypeptide. Nucleic

XX CC acids encoding PRO polypeptides of the invention were initially

XX CC identified via homology screening using consensus sequences based on the

XX CC extracellular domain sequences from known secreted proteins. Human cDNA

XX CC libraries containing sequences of interest were identified using

XX CC oligonucleotides based on the consensus sequences, and cDNA clones were

XX CC isolated and characterised. The PRO polypeptides are useful for

XX CC stimulating release of tumour necrosis factor-alpha (TNF-alpha) from

XX CC human blood and may thus be used in the treatment of conditions in which

XX CC enhanced TNF-alpha release would be beneficial. They are also useful for

XX CC stimulating the proliferation or differentiation of chondrocytes and as

XX CC such may be used in the treatment of various bone and/or cartilage

XX CC disorders such as arthritis and sports injuries. The PRO polypeptides may

XX CC be used in a method for detecting the presence of a tumour (e.g., an

XX CC adrenal tumour, lung tumour, colon tumour, breast tumour, prostate

XX CC tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This

XX CC method involves comparing the level of expression of the PRO polypeptide

XX CC in test and control samples, where a higher level of expression of PRO

XX CC polypeptide in the test sample as compared to the control sample is

XX CC indicative of the presence of a tumour. The PRO polypeptides are

XX CC additionally useful for in drug screening to identify agonists and

XX CC antagonists of PRO polypeptides. PRO nucleic acids are useful as

XX CC hybridisation probes for isolation of cDNA molecules), in chromosome and

XX CC gene mapping, in the generation of antisense RNA and DNA and in gene

XX CC therapy. The nucleic acids can also be used for mapping genes encoding

XX CC PRO polypeptides, for genetic analysis of individuals with genetic

XX CC disorders, and for generating either transgenic animals or knock-out

XX CC animals which are useful in the development and screening of

XX CC therapeutically useful compounds. Sequences ABR69963-ABR70267 represent

XX CC the human PRO secreted/transmembrane polypeptides of the invention. Note:

XX CC The sequence data for this patent is also available in electronic format

XX CC from USPTO at seqdata.uspto.gov/sequence.html

XX SQ Sequence 440 AA;

Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALPTGQQLFTKDVTVIEGVATISQVKNKSDSVIQLNPNRQTIYDFRPLK 75

Db 32 SAALPTGQQLFTKDVTVIEGVATISQVKNKSDSVIQLNPNRQTIYDFRPLK 91

Qy 76 DSRFQLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPRNLMIQK 135

Db 92 DSRFQLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPRNLMIQK 151

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				PR	29-APR-1998;	98US-00834499P.
Db	152	DTAVEGEIEIVNCTAMASKPATTIRWFKGN	181	PR	29-APR-1998;	98US-00835559P.
				PR	05-MAY-1998;	98US-0084366P.
				PR	06-MAY-1998;	98US-0084414P.
				PR	07-MAY-1998;	98US-0084639P.
				PR	07-MAY-1998;	98US-0084640P.
				PR	07-MAY-1998;	98US-0084643P.
				PR	15-MAY-1998;	98US-0085579P.
				PR	15-MAY-1998;	98US-0085580P.
				PR	15-MAY-1998;	98US-0085582P.
				PR	15-MAY-1998;	98US-0085700P.
				PR	18-MAY-1998;	98US-0086023P.
				PR	22-MAY-1998;	98US-0086392P.
				PR	22-MAY-1998;	98US-0086486P.
				PR	28-MAY-1998;	98US-0087098P.
				PR	28-MAY-1998;	98US-0087208P.
				PR	02-JUN-1998;	98US-0087609P.
				PR	02-JUN-1998;	98US-0087759P.
				PR	03-JUN-1998;	98US-0087827P.
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				PR	17-JUN-1998;	98US-0089538P.
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				PR	17-JUN-1998;	98US-0089653P.
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				PR	22-JUN-1998;	98US-0090252P.
				PR	22-JUN-1998;	98US-0090254P.
				PR	24-JUN-1998;	98US-0090429P.
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				PR	25-JUN-1998;	98US-0090695P.
				PR	25-JUN-1998;	98US-0090696P.
				PR	26-JUN-1998;	98US-00105413.
				PR	26-JUN-1998;	98US-0090862P.
				PR	26-JUN-1998;	98US-0090863P.
				PR	26-JUN-1998;	98US-0091010P.
				PR	01-JUL-1998;	98US-0091355P.
				PR	01-JUL-1998;	98US-0091544P.
				PR	02-JUL-1998;	98US-0091478P.

RESULT 72
ABR69312
ID ABR69312 standard; protein; 440 AA.
AC ABR69312;
XX
XX
DT 11-AUG-2003 (first entry)
DE Human secreted polypeptide PRO355, SEQ ID NO:34.
DE
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
XX
OS Homo sapiens.
XX
XX
PN US2003036132-A1.
XX
XX
PD 20-FEB-2003.
XX
XX
PF 28-JUN-2002; 2002US-00184629.
XX
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
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PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
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PR 24-NOV-1997; 97US-0066466P.
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PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
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PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
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PR 01-APR-1998; 98US-0080333P.
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PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
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PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.


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PR 23-SEP-1998; 98US-0101471P.
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PR 01-OCT-1998; 98US-0102687P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7,7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFFSSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
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Db 92 DSRFQLNFFSSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWPKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWPKGN 181
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RESULT 73
ABO01453
ID ABO01453 standard; protein; 440 AA.
XX ABO01453;
XX
XX 07-AUG-2003 (first entry)
XX Human PRO polypeptide #17.
XX Human; PRO; tumour; cytostatic; cancer; secreted protein; lung;
KW transmembrane protein; tumour necrosis factor alpha; TNF-alpha; adrenal;
KW chondrocyte cell; colon; breast; prostate; rectum; cervix; liver.
XX Homo sapiens.
XX
XX US2003008353-A1.
XX 09-JAN-2003.
XX
XX 21-JUN-2002; 2002US-00176758.
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
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XX 20-MAR-1998; 98US-0078939P.
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XX 21-APR-1998; 98US-0082568P.
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XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
XX 29-APR-1998; 98US-0083499P.
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PR	29-APR-1998;	98US-0083559P.
PR	05-MAY-1998;	98US-0084366P.
PR	06-MAY-1998;	98US-0084414P.
PR	07-MAY-1998;	98US-0084639P.
PR	07-MAY-1998;	98US-0084640P.
PR	16-SEP-1998;	98WO-US019330.
PR	07-OCT-1998;	98WO-US021141.
PR	01-DEC-1998;	98WO-US025108.
PR	08-MAR-1999;	99WO-US005028.
PR	14-MAY-1999;	99WO-US010733.
PR	02-JUN-1999;	99WO-US012252.
PR	01-SEP-1999;	99WO-US020111.
PR	15-SEP-1999;	99WO-US021090.
PR	01-DEC-1999;	99WO-US028301.
PR	02-DEC-1999;	99WO-US028551.
PR	30-DEC-1999;	99WO-US031274.
PR	05-JAN-2000;	2000WO-US000219.
PR	18-FEB-2000;	2000WO-US004341.
PR	18-FEB-2000;	2000WO-US004342.
PR	22-FEB-2000;	2000WO-US004414.
PR	24-FEB-2000;	2000WO-US005004.
PR	01-MAR-2000;	2000WO-US005601.
PR	02-MAR-2000;	2000WO-US005641.
PR	15-MAR-2000;	2000WO-US006884.
PR	30-MAR-2000;	2000WO-US008439.
PR	17-MAY-2000;	2000WO-US013705.
PR	22-MAY-2000;	2000WO-US014042.
PR	30-MAY-2000;	2000WO-US014941.
PR	02-JUN-2000;	2000WO-US015264.
PR	28-JUL-2000;	2000WO-US020710.
PR	24-AUG-2000;	2000WO-US023328.
PR	08-NOV-2000;	2000WO-US030952.
PR	01-DEC-2000;	2000WO-US032678.
PR	20-DEC-2000;	2000WO-US034956.
PR	28-FEB-2001;	2001WO-US0006520.
PR	01-JUN-2001;	2001WO-US017800.
PR	20-JUN-2001;	2001WO-US019692.
PR	29-JUN-2001;	2001WO-US021066.
PR	09-JUL-2001;	2001WO-US021735.
PR	29-AUG-2001;	2001WO-US027099.
PR	15-JAN-2002;	2002US-00052586.
XX	(GETH) GENENTECH INC.	
PA	Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AI;	
XX	Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;	
PI		
PI		
XX	WPI; 2003-341328/32.	
DR	N-PSDB; ACD06949.	
XX		
XX	Three hundred and five nucleic acids encoding secreted and transmembrane	
PT	polypeptides, designated as PRO, useful for detecting the presence of, or	
PT	treating tumor, e.g. adrenal, lung, colon, breast, prostate, rectal,	
PT	cervical or liver tumor.	
XX		
XX	Claim 11; Fig 34; 707pp; English.	
XX		
CC	The invention relates to human PRO polypeptides (secreted and	
CC	transmembrane polypeptides) and the polynucleotides encoding them. The	
CC	invention also relates to an antibody that specifically binds to a PRO	
CC	polypeptide, a method for stimulating the release of tumour necrosis	
CC	factor alpha (TNF-alpha) from human blood by contacting the blood with a	
CC	PRO polypeptide and a method for stimulating the proliferation or	
CC	differentiation of chondrocyte cells by contacting the cells with a PRO	
CC	polypeptide. The polypeptides and polynucleotides are useful for	
CC	detecting the presence of a tumour, such as an adrenal, lung, colon,	
CC	breast, prostate, rectal, cervical or liver tumour, and for treating such	
CC	tumours. The polynucleotides are useful as hybridisation probes, in	
CC	chromosome and gene mapping and in generating antisense RNA or DNA. The	
CC	polypeptides are useful as pharmaceutical, diagnostics, biosensors or	
CC	bioreactors. Both are useful in tissue typing. Sequences ABO01437-	
CC	ABO01741 represent human PRO polypeptides of the invention. Note: The	
CC	sequence data for this patent is also available in electronic format from	

CC	USPTO at seqdata.uspto.gov/sequence.html	
XX		
SQ	Sequence 440 AA;	
	Query Match 35.5%; Score 150; DB 6; Length 440;	
	Best Local Similarity 100.0%; Pred. No. 7.7e-135;	
	Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	16 SAAALPTGQGNLFKDTVTIEGEVATISQVKNKSDSDSVIQLLNPNROTIIYFRDRPLK 75	
Db	32 SAAALPTGQGNLFKDTVTIEGEVATISQVKNKSDSDSVIQLLNPNROTIIYFRDRPLK 91	
QY	76 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMIDIOK 135	
Db	92 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMIDIOK 151	
QY	136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165	
Db	152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181	
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ID	ABU81255 standard; protein; 440 AA.	
XX		
AC	ABU81255;	
XX		
DT	24-JUN-2003 (first entry)	
XX		
DE	Human PRO polypeptide #17.	
XX		
KW	Human; PRO; tumour necrosis factor-alpha; TNF-alpha; blood;	
KW	chondrocyte cell; tumour; adrenal; kidney; lung; colon; breast; prostate;	
KW	rectum; cervix; liver; cytostatic.	
XX		
OS	Homo sapiens.	
XX		
PN	US2003017542-A1.	
XX		
PD	23-JAN-2003.	
XX		
PF	20-JUN-2002; 2002US-00176749.	
XX		
PR	18-SEP-1997; 97US-0059263P.	
PR	18-SEP-1997; 97US-0059266P.	
PR	17-OCT-1997; 97US-0062250P.	
PR	21-OCT-1997; 97US-0063486P.	
PR	24-OCT-1997; 97US-0063120P.	
PR	24-OCT-1997; 97US-0063121P.	
PR	28-OCT-1997; 97US-0063540P.	
PR	28-OCT-1997; 97US-0063541P.	
PR	28-OCT-1997; 97US-0063544P.	
PR	28-OCT-1997; 97US-0063564P.	
PR	29-OCT-1997; 97US-0063734P.	
PR	31-OCT-1997; 97US-0063870P.	
PR	31-OCT-1997; 97US-0064103P.	
PR	13-NOV-1997; 97US-0065311P.	
PR	21-NOV-1997; 97US-0066120P.	
PR	24-NOV-1997; 97US-0066466P.	
PR	24-NOV-1997; 97US-0066772P.	
PR	11-DEC-1997; 97US-0069335P.	
PR	12-DEC-1997; 97US-0069425P.	
PR	17-DEC-1997; 97US-0069870P.	
PR	18-DEC-1997; 97US-0068017P.	
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; Patent No. US2002016486A1
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; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
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; US-09-778-510-22

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; APPLICANT: Baum, Peter R.
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; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/09/778,187B
; CURRENT FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
```



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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 423
; TYPE: PRT
; ORGANISM: mus musculus
US-09-778-187B-4

Query Match      100.0%; Score 423; DB 9; Length 423;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPGGLRLRLLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db
QY 61 PNRQTIYFRDPLKDSRFQLLNFSSSELKSVLTNNVSIISDEGRYFCOLYTDPPQESYTTI 120
Db
QY 121 TVLVPPRNLMIDIKQDQTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKKGKSEVEWSDM 180
Db
QY 181 YTVTSQMLKVKHEDDGVPIQVEHPAVTGNLQRYLEVQYKPOVHIQMTYPLQGLTR 240
Db
QY 241 EGDAFELTCEAIGKQPQVMVTVRVDDEMPQHAVLSPGNLFINNKNKTONGTYRCEASNI 300
Db
QY 301 VGKHSYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHKAGDADAADATAIINAEAGGQNNSEKK 420
Db
QY 421 EYF 423
Db 421 EYF 423

RESULT 4
US-10-622-237-4
; Sequence 4, Application US/10622237
; Publication No. US20040204568A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/10/622,237
; PRIOR FILING DATE: 2003-07-17
; PRIOR APPLICATION NUMBER: US/09/778,187B
; PRIOR FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 423
; TYPE: PRT
; ORGANISM: mus musculus
US-10-622-237-4

Query Match      100.0%; Score 423; DB 16; Length 423;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPGGLRLRLLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db
QY 61 PNRQTIYFRDPLKDSRFQLLNFSSSELKSVLTNNVSIISDEGRYFCOLYTDPPQESYTTI 120
Db
QY 121 TVLVPPRNLMIDIKQDQTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKKGKSEVEWSDM 180
Db
QY 181 YTVTSQMLKVKHEDDGVPIQVEHPAVTGNLQRYLEVQYKPOVHIQMTYPLQGLTR 240
Db
QY 241 EGDAFELTCEAIGKQPQVMVTVRVDDEMPQHAVLSPGNLFINNKNKTONGTYRCEASNI 300
Db
QY 301 VGKHSYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHKAGDADAADATAIINAEAGGQNNSEKK 420
Db
QY 421 EYF 423
Db 421 EYF 423

RESULT 3
US-10-302-041-22
; Sequence 22, Application US/10302041
; Publication No. US20030144478A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/10/302,041
; CURRENT FILING DATE: 2002-11-21
; PRIOR FILING DATE: US/09/778,510
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-302-041-22

Query Match      100.0%; Score 423; DB 14; Length 423;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPGGLRLRLLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
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QY 181 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLQOTORYLEVQYKQVHIQMTYPLQGLTR 240
Db 181 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLQOTORYLEVQYKQVHIQMTYPLQGLTR 240
QY 241 EGDFAELTCEAIGKQPQVVMVTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
Db 241 EGDFAELTCEAIGKQPQVVMVTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
QY 301 VGKAHSDYMLYVYDPTTTPPTTT 360
Db 301 VGKAHSDYMLYVYDPTTTPPTTT 360
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEAGGQNNSEKK 420
Db 361 GVVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEAGGQNNSEKK 420
QY 421 EYF 423
Db 421 EYF 423
RESULT 5
US-10-898-408-4
; Sequence 4, Application US/10898408
; Publication No. US20050058642A1
; GENERAL INFORMATION:
; APPLICANT: GALIBERT, Laurent J.
; APPLICANT: YAN, Wei
; TITLE OF INVENTION: ANTAGONISTS AND AGONISTS OF LOCAM AND METHODS OF USE
; FILE REFERENCE: 3467-A
; CURRENT APPLICATION NUMBER: US/10/898,408
; CURRENT FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: 60/490,027
; PRIOR FILING DATE: 2003-07-25
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 4
; LENGTH: 423
; TYPE: PRT
; ORGANISM: mus musculus
US-10-898-408-4
Query Match 100.0%; Score 423; DB 17; Length 423;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAPGGLRLRLLLLLSAAALIPFGDQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 1 AAPGGLRLRLLLLLSAAALIPFGDQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
QY 61 PNRQTIYFRDPRPKDSRFQNLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPPESTYTTI 120
Db 61 PNRQTIYFRDPRPKDSRFQNLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPPESTYTTI 120
QY 121 TVLVPPRLNLMIDIQKDTAVEGESIEVNCCTAMASKPATIRWFKGNKELKGKSEVESWSDM 180
Db 121 TVLVPPRLNLMIDIQKDTAVEGESIEVNCCTAMASKPATIRWFKGNKELKGKSEVESWSDM 180
QY 181 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLQOTORYLEVQYKQVHIQMTYPLQGLTR 240
Db 181 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLQOTORYLEVQYKQVHIQMTYPLQGLTR 240
QY 241 EGDFAELTCEAIGKQPQVVMVTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
Db 241 EGDFAELTCEAIGKQPQVVMVTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
QY 301 VGKAHSDYMLYVYDPTTTPPTTT 360
Db 301 VGKAHSDYMLYVYDPTTTPPTTT 360
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEAGGQNNSEKK 420
Db 361 GVVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEAGGQNNSEKK 420

QY 421 EYF 423
Db 421 EYF 423
RESULT 6
US-10-015-115-112
; Sequence 112, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Zerhusen, Bryan D
; APPLICANT: Patturajan, Meera
; APPLICANT: Guo, Xiaojia
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Esha A
; APPLICANT: Shimkets, Richard A
; APPLICANT: Taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; CURRENT FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/264,240
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/266,127
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/269,562
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/304,348
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/309,261
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/313,283
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 112
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-015-115-112

Query Match 100.0%; Score 423; DB 15; Length 445;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAPGGLRLRLLLLLSAAALIPFGDQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 22 AAPGGLRLRLLLLLSAAALIPFGDQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 81
QY 61 PNRQTIYFRDPRPKDSRFQNLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPPESTYTTI 120
Db 82 PNRQTIYFRDPRPKDSRFQNLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPPESTYTTI 141
QY 121 TVLVPPRLNLMIDIQKDTAVEGESIEVNCCTAMASKPATIRWFKGNKELKGKSEVESWSDM 180
Db 142 TVLVPPRLNLMIDIQKDTAVEGESIEVNCCTAMASKPATIRWFKGNKELKGKSEVESWSDM 201
QY 181 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLQOTORYLEVQYKQVHIQMTYPLQGLTR 240
Db 202 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLQOTORYLEVQYKQVHIQMTYPLQGLTR 261
QY 241 EGDFAELTCEAIGKQPQVVMVTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300

262	EGDAFELTCEAIGKQPQVMTWVRVDDMPQHAVLSGNLFINNLNKNTDNGTVRCEASNI	321
Db		
301	VGKAHSDMYLYYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGTIGAVDHAVIG	360
Qy		
322	VGKAHSDMYLYYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGTIGAVDHAVIG	381
Db		
361	GVAVVVFAMLCIIILGRYPARHKGTFTTHEAKGADDAADATAIINAEQQNNSEKK	420
Qy		
382	GVAVVVFAMLCIIILGRYPARHKGTFTTHEAKGADDAADATAIINAEQQNNSEKK	441
Db		
421	EYF 423	
Qy		
442	EYF 444	
Db		

RESULT 7
US-10-015-115-113
; Sequence 113, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly A
; APPLICANT: zerhusen, Bryan D
; APPLICANT: patturajan, Meera
; APPLICANT: Guo, Xiaojia
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Esha A
; APPLICANT: Shimkets, Richard A
; APPLICANT: Taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; TITLE OF INVENTION: Using the Same
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; CURRENT FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/264,240
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/266,127
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/269,562
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/304,348
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/309,261
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/313,283
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 113
; LENGTH: 494
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-015-115-113

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Qy 121 TVLVPPRNLMIDIQDXTAVGESEIEVNVCTAMASKPATTTIRWFKGNKELKGKSEVEEWSDM 180
Db 180 TVLVPPRNLMIDIQDXTAVGESEIEVNVCTAMASKPATTTIRWFKGNKELKGKSEVEEWSDM 239
Qy 181 YTVTSQMLKVKHKEDDGVPICOVEHPAVTGNLTQRYLEYVQYKPQVHIQMTYPLQGLTR 240
Db 240 YTVTSQMLKVKHKEDDGVPICOVEHPAVTGNLTQRYLEYVQYKPQVHIQMTYPLQGLTR 299
Qy 241 EGDFAFELTCAIGKQPQPMVMTWRVDDDEMQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
Db 300 EGDFAFELTCAIGKQPQPMVMTWRVDDDEMQHAVLSGPNLFINNLTNDNGTYRCEASNI 359
Qy 301 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTIITD 342
Db 360 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTIITD 401

RESULT 8
US-10-417-375-145
; Sequence 145, Application US/10417375
; Publication No. US20040219528A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc Malandro
; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
; FILE REFERENCE: 529452001600
; CURRENT APPLICATION NUMBER: US/10/417,375
; CURRENT FILING DATE: 2003-04-15
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 145
; LENGTH: 393
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-417-375-145

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RESULT 9
US-09-984-130-39
; Sequence 39, Application US/09984130
; Publication No. US2003005231A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P2
; CURRENT APPLICATION NUMBER: US/09/984,130
; PRIOR FILING DATE: 2001-10-29
; CURRENT APPLICATION NUMBER: 60/243,792

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; PRIOR FILING DATE: 2000-10-30
; PRIOR APPLICATION NUMBER: 09/836,353
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 39
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-984-130-39

Query Match          35.5%; Score 150; DB 10; Length 364;
Best Local Similarity 100.0%; Pred. No. 9.4e-126;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 75
Db 34 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 93

QY 76 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 94 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 153

QY 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
Db 154 DTAVEGEIEVNCVTAMASKPATIRWPKGN 183

RESULT 10
US-09-836-353A-39
; Sequence 39, Application US/09836353A
; Publication No. US20030129685A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P1
; CURRENT APPLICATION NUMBER: US/09/836,353A
; CURRENT FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 39
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-836-353A-39

Query Match          35.5%; Score 150; DB 10; Length 364;
Best Local Similarity 100.0%; Pred. No. 9.4e-126;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 75
Db 34 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 93

QY 76 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 94 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 153

QY 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
Db 154 DTAVEGEIEVNCVTAMASKPATIRWPKGN 183
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RESULT 11
US-10-821-273-62
; Sequence 62, Application US/10821273
; Publication No. US20040248256A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steinger II, Robert J.
; APPLICANT: Bowman, Michael R.
; APPLICANT: DiBlasio-Smith, Elizabeth
; APPLICANT: Widom, Angela
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000101.
; CURRENT APPLICATION NUMBER: US/10/821,273
; CURRENT FILING DATE: 2004-04-09
; PRIOR APPLICATION NUMBER: US 09/306,111
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: US 60/084,564
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: US 60/087,645
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: US 60/093,712
; PRIOR FILING DATE: 1998-07-22
; PRIOR APPLICATION NUMBER: US 60/094,935
; PRIOR FILING DATE: 1998-07-31
; PRIOR APPLICATION NUMBER: US 60/095,880
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: US 60/096,068
; PRIOR FILING DATE: 1998-08-11
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 62
; LENGTH: 414
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-273-62

Query Match          35.5%; Score 150; DB 16; Length 414;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 75
Db 34 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 93

QY 76 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 94 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 153

QY 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
Db 154 DTAVEGEIEVNCVTAMASKPATIRWPKGN 183

RESULT 12
US-10-417-375-148
; Sequence 148, Application US/10417375
; Publication No. US20040219528A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc Malandro
; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
; FILE REFERENCE: 529452001600
; CURRENT APPLICATION NUMBER: US/10/417,375
; CURRENT FILING DATE: 2003-04-15
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Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 181

RESULT 17
US-09-945-587-61
; Sequence 61, Application US/09945587
; Patent No. US20020127643A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Saton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/945,587
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
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; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-945-587-61

Query Match 35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 181

RESULT 18
US-09-945-015-61
; Sequence 61, Application US/09945015
; Patent No. US20020132768A1
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GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,015
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: NO. US20020132768A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: NO. US20020132768A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-945-015-61

Query Match 35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALPTGDGQNLTKQVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPLK 75
Db 32 SAALPTGDGQNLTKQVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPLK 91

QY 76 DSRFQLNFSSELKVLNVTNVSISDEGRYFCOLYTPPQESYTTITVLVPPNLMIDIQK 135
Db 92 DSRFQLNFSSELKVLNVTNVSISDEGRYFCOLYTPPQESYTTITVLVPPNLMIDIQK 151

QY 136 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 181

RESULT 19
US-09-944-396-61
; Sequence 61, Application US/09944396
; Patent No. US20020132981A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1

;	CURRENT APPLICATION NUMBER:	US/09/944,394	;
;	CURRENT FILING DATE:	2001-09-26	;
;	PRIOR APPLICATION NUMBER:	09/866,028	;
;	PRIOR FILING DATE:	2001-05-25	;
;	PRIOR APPLICATION NUMBER:	60/067,411	;
;	PRIOR FILING DATE:	December 3, 1997	;
;	PRIOR APPLICATION NUMBER:	60/069,134	;
;	PRIOR FILING DATE:	December 11, 1997	;
;	PRIOR APPLICATION NUMBER:	60/069,335	;
;	PRIOR FILING DATE:	December 11, 1997	;
;	PRIOR APPLICATION NUMBER:	60/069,278	;
;	PRIOR FILING DATE:	December 11, 1997	;
;	PRIOR APPLICATION NUMBER:	60/069,425	;
;	PRIOR FILING DATE:	December 12, 1997	;
;	PRIOR APPLICATION NUMBER:	60/069,696	;
;	PRIOR FILING DATE:	December 16, 1997	;
;	PRIOR APPLICATION NUMBER:	60/069,694	;
;	PRIOR FILING DATE:	December 16, 1997	;
;	PRIOR APPLICATION NUMBER:	60/069,702	;
;	PRIOR FILING DATE:	December 16, 1997	;
;	PRIOR APPLICATION NUMBER:	60/069,870	;
;	PRIOR FILING DATE:	December 17, 1997	;
;	PRIOR APPLICATION NUMBER:	60/069,873	;
;	PRIOR FILING DATE:	December 17, 1997	;
;	PRIOR APPLICATION NUMBER:	60/068,017	;
;	PRIOR FILING DATE:	December 18, 1997	;
;	PRIOR APPLICATION NUMBER:	60/070,440	;
;	PRIOR FILING DATE:	January 5, 1998	;
;	PRIOR APPLICATION NUMBER:	60/074,086	;
;	PRIOR FILING DATE:	February 9, 1998	;
;	PRIOR APPLICATION NUMBER:	60/074,092	;
;	PRIOR FILING DATE:	February 9, 1998	;
;	PRIOR APPLICATION NUMBER:	60/075,945	;
;	PRIOR FILING DATE:	February 25, 1998	;
;	PRIOR APPLICATION NUMBER:	60/112,850	;
;	PRIOR FILING DATE:	December 16, 1998	;
;	PRIOR APPLICATION NUMBER:	60/113,296	;
;	PRIOR FILING DATE:	December 22, 1998	;
;	PRIOR APPLICATION NUMBER:	60/146,222	;
;	PRIOR FILING DATE:	July 28, 1999	;
;	PRIOR APPLICATION NUMBER:	PCT/US98/19330	;
;	PRIOR FILING DATE:	September 16, 1998	;
;	PRIOR APPLICATION NUMBER:	PCT/US98/25108	;
;	PRIOR FILING DATE:	December 1, 1998	;
;	PRIOR APPLICATION NUMBER:	09/216,021	;
;	PRIOR FILING DATE:	December 16, 1998	;
;	PRIOR APPLICATION NUMBER:	09/218,517	;
;	PRIOR FILING DATE:	December 22, 1998	;
;	PRIOR APPLICATION NUMBER:	09/254,311	;
;	PRIOR FILING DATE:	March 3, 1999	;
;	PRIOR APPLICATION NUMBER:	PCT/US99/12252	;
;	PRIOR FILING DATE:	June 22, 1999	;
;	PRIOR APPLICATION NUMBER:	PCT/US99/21090	;
;	PRIOR FILING DATE:	September 15, 1999	;
;	PRIOR APPLICATION NUMBER:	PCT/US99/28409	;
;	PRIOR FILING DATE:	No. US20020132981A1emb	;
;	PRIOR APPLICATION NUMBER:	PCT/US99/28313	;
;	PRIOR FILING DATE:	No. US20020132981A1emb	;
;	PRIOR APPLICATION NUMBER:	PCT/US99/28301	;
;	PRIOR FILING DATE:	December 1, 1999	;
;	PRIOR APPLICATION NUMBER:	PCT/US99/30095	;
;	PRIOR FILING DATE:	December 16, 1999	;
;	PRIOR APPLICATION NUMBER:	PCT/US00/03565	;
;	PRIOR FILING DATE:	February 11, 2000	;
;	PRIOR APPLICATION NUMBER:	PCT/US00/04414	;
;	PRIOR FILING DATE:	February 22, 2000	;
;	PRIOR APPLICATION NUMBER:	PCT/US00/05841	;
;	PRIOR FILING DATE:	March 2, 2000	;
;	PRIOR APPLICATION NUMBER:	PCT/US00/08439	;
;	PRIOR FILING DATE:	March 30, 2000	;
;	PRIOR APPLICATION NUMBER:	PCT/US00/14042	;
;	PRIOR FILING DATE:	May 22, 2000	;
;	PRIOR APPLICATION NUMBER:	PCT/US00/20710	;

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; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-396-61

Query Match 35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTDGGQLFTKDVTVIEGEVATISCVNKSDSVIQLLNPNRQTIYERDPRPLK 75
Db 32 SAAALPTDGGQLFTKDVTVIEGEVATISCVNKSDSVIQLLNPNRQTIYERDPRPLK 91

Qy 76 DSRFQLLNFSSELKSLTNVSISSDGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQ 135
Db 92 DSRFQLLNFSSELKSLTNVSISSDGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQ 151

Qy 136 DTAVEGEIEVNCCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCCTAMASKPATIRWFKGN 181

RESULT 20
US-09-944-432-61
; Sequence 61, Application US/09944432
; Patent No. US2002014241A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fillaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: F2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,432
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997

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; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142419A, September 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142419A, September 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-432-61

Query Match 35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.le-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAALIPGTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91

; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142419A, September 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142419A, September 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-432-61

Qy 76 DSRFQLNFSSELKSLVSTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIOK 135
Db 92 DSRFQLNFSSELKSLVSTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIOK 151

Qy 136 DTAVEGEIEVNCNTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCNTAMASKPATIRWPKGN 181

RESULT 21
US-09-943-762-61
; Sequence 61, Application US/09943762
; Patent No. US20020142958A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavini, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,762
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,896
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
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; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-943-762-61

Query Match          35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125; Mismatches 0; Indels 0; Gaps 0;
Matches 150; Conservative 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 75
    |||||
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91
    |||||
QY 76 DSRFQLLNFSSSELKSLTVNVSISDEGRYFCQLYTDPPQBSYTTITVLVPPRNLMDIOK 135
    |||||
Db 92 DSRFQLLNFSSSELKSLTVNVSISDEGRYFCQLYTDPPQBSYTTITVLVPPRNLMDIOK 151
    |||||
QY 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
    |||||
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181
    |||||

RESULT 22
US-09-944-654-61
; Sequence 61, Application US/09944654
; Patent No. US20020142959A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Gerriksen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Hurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,654
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 15, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142959A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142959A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
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; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-654-61

Query Match 35.58; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALITGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLX 75
|||||
DB 32 SAALITGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLX 91
|||||
QY 76 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQBSYTTITVLVPPRNLMDIQK 135
|||||
DB 92 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQBSYTTITVLVPPRNLMDIQK 151
|||||
QY 136 DTAVEGEIEVNCMTAMASKPATIRWPKGN 165
|||||
DB 152 DTAVEGEIEVNCMTAMASKPATIRWPKGN 181
|||||

RESULT 23

US-09-943-851A-61
; Sequence 61, Application US/09943851A
; Patent No. US20020150976A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, William
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,851A
; CURRENT FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: US/09/865,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020150976A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020150976A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61

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; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-943-851A-61

Query Match      35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFFSSSELKVSLSLTVNVSISDEGRYFCQLYTPDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVSLSLTVNVSISDEGRYFCQLYTPDPPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 24
US-09-944-413-61
; Sequence 61, Application US/09944413
; Patent No. US20020156004A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: KJjavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,413
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
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; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR APPLICATION NUMBER: 60/070,440
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; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-413-61

Query Match      35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFFSSSELKVSLSLTVNVSISDEGRYFCQLYTPDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVSLSLTVNVSISDEGRYFCQLYTPDPPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181
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RESULT 25
US-09-944-403-61
; Sequence 61, Application US/09944403
; Patent No. US20020165143A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavini, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/944,403
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517

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; APPLICANT: Roy,Margaret
; APPLICANT: Tumas,Daniel
; APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,896
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
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; PRIOR FILING DATE: December 16, 1997
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; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020168715A1eember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020168715A1eember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
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; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-896-61

Query Match      35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQGQLFTKDVTVIEGEVATISCVNKSDSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQGQLFTKDVTVIEGEVATISCVNKSDSDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFFSSSELKVLNINVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVLNINVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEIEVNCNTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEIEVNCNTAMASKPATTIRWFKGN 181

RESULT 27
US-09-944-944-61
; Sequence 61, Application US/09944944
; Patent No. US20020173463A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein,David
; APPLICANT: Eaton,Dan
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Hillan,Kenneth
; APPLICANT: Kljavin,Ivar
; APPLICANT: Napier,Mary
; APPLICANT: Roy,Margaret
; APPLICANT: Tumas,Daniel
; APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,944
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
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; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020173463A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020173463A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-944-944-61

Query Match      35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

16 SARALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRLK 75
   |||||||
32 SAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRLK 91
   |||||||
76 DSRFQLNLFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
   |||||||
92 DSRFQLNLFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151
   |||||||
136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165
   |||||||
152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181
   |||||||

RESULT 28
US-09-944-929-61
; Sequence 61, Application US/09944929
; Publication No. US20020197612A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944, 929
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-944-929-61

Query Match      35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

16 SARALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRLK 75
   |||||||
32 SAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRLK 91
   |||||||
76 DSRFQLNLFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
   |||||||
92 DSRFQLNLFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151
   |||||||
136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165
   |||||||
152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181
   |||||||

RESULT 29
US-09-944-907-61
; Sequence 61, Application US/09944907
; Publication No. US20020198147A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
```

```
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Hillan,Kenneth
; APPLICANT: Kijavin,Ivar
; APPLICANT: Napier,Mary
; APPLICANT: Roy,Margaret
; APPLICANT: Tumas,Daniel
; APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,907
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-907-61

Query Match      35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCTAMASKPATIRWFKGN 181

RESULT 30
US-09-944-884-61
; Sequence 61, Application US/09944884
; Publication No. US2003007698A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein,David
; APPLICANT: Eaton,Dan
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Hillan,Kenneth
; APPLICANT: Kijavin,Ivar
; APPLICANT: Napier,Mary
; APPLICANT: Roy,Margaret
; APPLICANT: Tumas,Daniel
; APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,884
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-884-61

Query Match      35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCTAMASKPATIRWFKGN 181

RESULT 30
US-09-944-884-61
; Sequence 61, Application US/09944884
; Publication No. US2003007698A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein,David
; APPLICANT: Eaton,Dan
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Hillan,Kenneth
; APPLICANT: Kijavin,Ivar
; APPLICANT: Napier,Mary
; APPLICANT: Roy,Margaret
; APPLICANT: Tumas,Daniel
; APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,884
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
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; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-884-61

Query Match      35.5%; Score 150; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCTAMASKPATIRWFKGN 181

RESULT 31
US-09-944-852-61
; Sequence 61, Application US/09944852
; Publication No. US20030083479A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein,David
; APPLICANT: Eaton,Dan
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Hillan,Kenneth
; APPLICANT: Kijavin,Ivar
; APPLICANT: Napier,Mary
; APPLICANT: Roy,Margaret
; APPLICANT: Tumas,Daniel
; APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,852
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-852-61

Query Match      35.5%; Score 150; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCTAMASKPATIRWFKGN 181
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RESULT 32

US-09-943-780-61
; Sequence 61, Application US/09943780
; Publication No. US20030096742A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,780
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,594
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517

; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20030096742A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20030096742A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-943-780-61

Query Match 35.5%; Score 150; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	16	SAAALPTGQNLTKDVTVEIEGATISCVQNKSDSVIQLNPNRQTIYFRDPRPLK	75
Db	32	SAAALPTGQNLTKDVTVEIEGATISCVQNKSDSVIQLNPNRQTIYFRDPRPLK	91
Qy	76	DSRFQLNFSSSELKYSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK	135
Db	92	DSRFQLNFSSSELKYSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK	151
Qy	136	DTAVEGEEIEVNCNTAMASKPATIRWFKGN	165
Db	152	DTAVEGEEIEVNCNTAMASKPATIRWFKGN	181

RESULT 33

US-09-945-584-61
; Sequence 61, Application US/09945584
; Publication No. US20030211570A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary

APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC.
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/945,584
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20030211570A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20030211570A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841

PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-945-584-61

Query Match 35.5%; Score 150; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALIPCTGQNLTKDVTVIEGEVATISCVNKSDDSVIQLNPNRTIYFRDRPLK 75
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Db 32 SAALIPCTGQNLTKDVTVIEGEVATISCVNKSDDSVIQLNPNRTIYFRDRPLK 91
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QY 76 DSRFQLNPFSSSELKVSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPNLMIDIQK 135
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Db 92 DSRFQLNPFSSSELKVSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPNLMIDIQK 151
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QY 136 DPAVEGEIEVNCVTAMASKPATTIRWFKGN 165
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Db 152 DPAVEGEIEVNCVTAMASKPATTIRWFKGN 181
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RESULT 34
US-09-943-664-61
Sequence 61, Application US/09943664
Publication No. US20040091972A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/943,664
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,696
 ; PRIOR FILING DATE: December 16, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,694
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 ; PRIOR APPLICATION NUMBER: 60/069,702
 ; PRIOR FILING DATE: December 16, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,870
 ; PRIOR FILING DATE: December 17, 1997
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 ; PRIOR FILING DATE: December 17, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,017
 ; PRIOR FILING DATE: December 18, 1997
 ; PRIOR APPLICATION NUMBER: 60/070,440
 ; PRIOR FILING DATE: January 5, 1998
 ; PRIOR APPLICATION NUMBER: 60/074,086
 ; PRIOR FILING DATE: February 9, 1998
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 ; PRIOR FILING DATE: February 9, 1998
 ; PRIOR APPLICATION NUMBER: 60/075,945
 ; PRIOR FILING DATE: February 25, 1998
 ; PRIOR APPLICATION NUMBER: 60/112,850
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 60/113,296
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 60/146,222
 ; PRIOR FILING DATE: July 28, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330
 ; PRIOR FILING DATE: September 16, 1998
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108
 ; PRIOR FILING DATE: December 1, 1998
 ; PRIOR APPLICATION NUMBER: 09/216,021
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 09/218,517
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 09/254,311
 ; PRIOR FILING DATE: March 3, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252
 ; PRIOR FILING DATE: June 22, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: September 15, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409
 ; PRIOR FILING DATE: November 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: November 30, 1999
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 ; PRIOR FILING DATE: December 1, 1999
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 ; PRIOR FILING DATE: December 16, 1999
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 ; PRIOR FILING DATE: February 11, 2000
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 ; PRIOR FILING DATE: February 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841
 ; PRIOR FILING DATE: March 2, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439
 ; PRIOR FILING DATE: March 30, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042
 ; PRIOR FILING DATE: May 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710
 ; PRIOR FILING DATE: July 28, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678
 ; PRIOR FILING DATE: December 1, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520
 ; PRIOR FILING DATE: February 28, 2001
 ; NUMBER OF SEQ ID NOS: 120
 ; SEQ ID NO 61
 ; LENGTH: 440
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-09-943-664-61
 Query Match 35,58; Score 150; DB 11; Length 440;
 Best Local Similarity 100.0%; Pred. No. 1.1e-125;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 16 SAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
 Db 32 SAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
 Qy 76 DSRFQLNFFSSSELKSLTNVTSISDEGRYFCOLYTDPPQSSYTTITVLVPPRNLMIDIOK 135
 Db 92 DSRFQLNFFSSSELKSLTNVTSISDEGRYFCOLYTDPPQSSYTTITVLVPPRNLMIDIOK 151
 Qy 136 DTAVEGEIEVNCCTAMASKPATIRWFKGN 165
 Db 152 DTAVEGEIEVNCCTAMASKPATIRWFKGN 181
 RESULT 35
 US-10-052-586-34
 ; Sequence 34, Application US/10052586
 ; Publication No. US20020127584A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Chen, Jian
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Pan, James
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Watanabe, Colin K.
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE REFERENCE: P3430R1C1
 ; CURRENT APPLICATION NUMBER: US/10/052,586
 ; CURRENT FILING DATE: 2002-01-15
 ; PRIOR APPLICATION NUMBER: 60/059263
 ; PRIOR FILING DATE: 1997-09-18
 ; PRIOR APPLICATION NUMBER: 60/059266
 ; PRIOR FILING DATE: 1997-09-18
 ; PRIOR APPLICATION NUMBER: 60/062250
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 ; PRIOR FILING DATE: 1997-10-31
 ; PRIOR APPLICATION NUMBER: 60/065311
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 ; PRIOR APPLICATION NUMBER: 60/066772
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 ; PRIOR APPLICATION NUMBER: 60/069425

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5	PRIOR FILING DATE: 1997-12-18	
6	PRIOR APPLICATION NUMBER: 60/077450	
7	PRIOR FILING DATE: 1998-03-10	
8	PRIOR APPLICATION NUMBER: 60/077632	
9	PRIOR FILING DATE: 1998-03-11	
10	PRIOR APPLICATION NUMBER: 60/077649	
11	PRIOR FILING DATE: 1998-03-11	
12	PRIOR APPLICATION NUMBER: 60/078886	
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22	PRIOR APPLICATION NUMBER: 60/080194	
23	PRIOR FILING DATE: 1998-03-31	
24	PRIOR APPLICATION NUMBER: 60/080327	
25	PRIOR FILING DATE: 1998-04-01	
26	PRIOR APPLICATION NUMBER: 60/080333	
27	PRIOR FILING DATE: 1998-04-01	
28	PRIOR APPLICATION NUMBER: 60/081049	
29	PRIOR FILING DATE: 1998-04-08	
30	PRIOR APPLICATION NUMBER: 60/081070	
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32	PRIOR APPLICATION NUMBER: 60/081195	
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34	PRIOR APPLICATION NUMBER: 60/081838	
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56	PRIOR APPLICATION NUMBER: 60/084414	
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64	PRIOR APPLICATION NUMBER: 60/085573	
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66	PRIOR APPLICATION NUMBER: 60/085579	
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70	PRIOR APPLICATION NUMBER: 60/085582	
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72	PRIOR APPLICATION NUMBER: 60/085700	
73	PRIOR FILING DATE: 1998-05-15	

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3	PRIOR APPLICATION NUMBER: 60/086392
4	PRIOR FILING DATE: 1998-05-22
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8	PRIOR FILING DATE: 1998-05-28
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10	PRIOR FILING DATE: 1998-05-28
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12	PRIOR FILING DATE: 1998-06-02
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26	PRIOR FILING DATE: 1998-06-05
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28	PRIOR FILING DATE: 1998-06-05
29	PRIOR APPLICATION NUMBER: 60/088212
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34	PRIOR FILING DATE: 1998-06-04
35	PRIOR APPLICATION NUMBER: 60/088655
36	PRIOR FILING DATE: 1998-06-09
37	PRIOR APPLICATION NUMBER: 60/088722
38	PRIOR FILING DATE: 1998-06-10
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63	PRIOR APPLICATION NUMBER: 60/089514
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65	PRIOR APPLICATION NUMBER: 60/089538
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67	PRIOR APPLICATION NUMBER: 60/089598
68	PRIOR FILING DATE: 1998-06-17
69	PRIOR APPLICATION NUMBER: 60/089653
70	PRIOR FILING DATE: 1998-06-17
71	PRIOR APPLICATION NUMBER: 60/089908
72	PRIOR FILING DATE: 1998-06-17

Query Match 35.5%; Score 150; DB 13; Length 440;

Db 92 DSRPQLNFSSSELUKSLTNVSISSDEGRYFCQLYDPPQSSYTTITVLVPPRLMIDIQK 151
QY 136 DTAVEGEIEIVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEIVNCTAMASKPATIRWFKGN 181

RESULT 39
US-10-174-581-34
; Sequence 34, Application US/10174581
; Publication No US20030017540A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C41
; CURRENT APPLICATION NUMBER: US/10/174,581
; CURRENT FILING DATE: 2002-06-18
; PRIOR APPLICATION NUMBER: 10/052586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
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; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
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7	PRIOR FILING DATE: 1998-06-02	
8	PRIOR APPLICATION NUMBER: 60/087759	
9	PRIOR FILING DATE: 1998-06-02	
10	PRIOR APPLICATION NUMBER: 60/087827	
11	PRIOR FILING DATE: 1998-06-03	
12	PRIOR APPLICATION NUMBER: 60/088025	
13	PRIOR FILING DATE: 1998-06-04	
14	PRIOR APPLICATION NUMBER: 60/088028	
15	PRIOR FILING DATE: 1998-06-04	
16	PRIOR APPLICATION NUMBER: 60/088029	
17	PRIOR FILING DATE: 1998-06-04	
18	PRIOR APPLICATION NUMBER: 60/088033	
19	PRIOR FILING DATE: 1998-06-04	
20	PRIOR APPLICATION NUMBER: 60/088167	
21	PRIOR FILING DATE: 1998-06-05	
22	PRIOR APPLICATION NUMBER: 60/088202	
23	PRIOR FILING DATE: 1998-06-05	
24	PRIOR APPLICATION NUMBER: 60/088212	
25	PRIOR FILING DATE: 1998-06-05	
26	PRIOR APPLICATION NUMBER: 60/088217	
27	PRIOR FILING DATE: 1998-06-05	
28	PRIOR APPLICATION NUMBER: 60/088326	
29	PRIOR FILING DATE: 1998-06-04	
30	PRIOR APPLICATION NUMBER: 60/088655	
31	PRIOR FILING DATE: 1998-06-09	
32	PRIOR APPLICATION NUMBER: 60/088722	
33	PRIOR FILING DATE: 1998-06-10	
34	PRIOR APPLICATION NUMBER: 60/088738	
35	PRIOR FILING DATE: 1998-06-10	
36	PRIOR APPLICATION NUMBER: 60/088740	
37	PRIOR FILING DATE: 1998-06-10	
38	PRIOR APPLICATION NUMBER: 60/088811	
39	PRIOR FILING DATE: 1998-06-10	
40	PRIOR APPLICATION NUMBER: 60/088824	
41	PRIOR FILING DATE: 1998-06-10	
42	PRIOR APPLICATION NUMBER: 60/088825	
43	PRIOR FILING DATE: 1998-06-10	
44	PRIOR APPLICATION NUMBER: 60/088826	
45	PRIOR FILING DATE: 1998-06-10	
46	PRIOR APPLICATION NUMBER: 60/088861	
47	PRIOR FILING DATE: 1998-06-11	
48	PRIOR APPLICATION NUMBER: 60/088863	
49	PRIOR FILING DATE: 1998-06-11	
50	PRIOR APPLICATION NUMBER: 60/088876	
51	PRIOR FILING DATE: 1998-06-11	
52	PRIOR APPLICATION NUMBER: 60/088909	
53	PRIOR FILING DATE: 1998-06-12	
54	PRIOR APPLICATION NUMBER: 60/089105	
55	PRIOR FILING DATE: 1998-06-12	
56	PRIOR APPLICATION NUMBER: 60/089512	
57	PRIOR FILING DATE: 1998-06-16	
58	PRIOR APPLICATION NUMBER: 60/089514	
59	PRIOR FILING DATE: 1998-06-16	
60	PRIOR APPLICATION NUMBER: 60/089538	
61	PRIOR FILING DATE: 1998-06-17	
62	PRIOR APPLICATION NUMBER: 60/089598	
63	PRIOR FILING DATE: 1998-06-17	
64	PRIOR APPLICATION NUMBER: 60/089653	

	Query Match	35.5%;	Score 150;	DB 14;	Length 440;
	Best Local Similarity	100.0%;	Pred. No. 1.1e-125;		
	Matches 150;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	16	SAAALPTGGQNLFTKDVTVEGEVATISCVNKSDDSVIQLLNNPRTQIYFDRPRLK	75		
Db	32	SAAALPTGGQNLFTKDVTVEGEVATISCVNKSDDSVIQLLNNPRTQIYFDRPRLK	91		

```

Qy 76 DSRPQLNFSSEKVLSTNVISDEGRYFCQLYTDPPQESYTTTITVLVPPRNLMIDIQK 135
Db 92 DSRPQLNFSSEKVLSTNVISDEGRYFCQLYTDPPQESYTTTITVLVPPRNLMIDIQK 151
Qy 136 DTAVEGEIEVNCNTAMASKPATTTIRWPKGN 165
Db 152 DTAVEGEIEVNCNTAMASKPATTTIRWPKGN 181

RESULT 40
US-10-176-483-34
; Sequence 34, Application US/10176483
; Publication No. US20030017541A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C68
; CURRENT APPLICATION NUMBER: US/10/176,483
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-483-34

```

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Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. NO. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGGQNLFTKDVTVIEGEVATISCQVNSKSDSVIQLNPNRQTIYPRDFRPLK 75
    |||
Db 32 SAAALPTGGQNLFTKDVTVIEGEVATISCQVNSKSDSVIQLNPNRQTIYPRDFRPLK 91
    |||

Qy 76 DSRFQLNLFSSSELKSLTNVSI SDEGRYFCQLYTDPPQSSYTTITVLVPPRLNLMIDIQK 135
    |||
Db 92 DSRFQLNLFSSSELKSLTNVSI SDEGRYFCQLYTDPPQSSYTTITVLVPPRLNLMIDIQK 151
    |||

Qy 136 DTAVEGEIEVNCCTAMASKPATTIRWPKGN 165
    |||
Db 152 DTAVEGEIEVNCCTAMASKPATTIRWPKGN 181
    |||

RESULT 41
US-10-176-749-34
; Sequence 34, Application US/10176749
; Publication No. US20030017542A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Deenoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austen L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME

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; FILE REFERENCE: P3430R1C76
; CURRENT APPLICATION NUMBER: US/10/176,749
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-749-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 181

RESULT 42
US-10-176-914-34
; Sequence 34, Application US/10176914
; Publication No. US20030017543A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C76
; CURRENT APPLICATION NUMBER: US/10/176,914
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-914-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 181

RESULT 43
US-10-176-915-34
; Sequence 34, Application US/10176915
; Publication No. US20030017544A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C110
; CURRENT APPLICATION NUMBER: US/10/176,915
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-915-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 181

RESULT 44
US-10-173-706-34
; Sequence 34, Application US/10173706
; Publication No. US2003002293A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C7
; CURRENT APPLICATION NUMBER: US/10/173,706
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
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; ORGANISM: Homo Sapien
US-10-173-706-34

Query Match
Best Local Similarity 35.5%; Score 150; DB 14; Length 440;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEIEVNCCTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCCTAMASKPATIRWPKGN 181

RESULT 45
US-10-175-738-34
; Sequence 34, Application US/10175738
; Publication No. US20030022294A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C45
; CURRENT FILING DATE: 2002-06-19
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-738-34

Query Match
Best Local Similarity 35.5%; Score 150; DB 14; Length 440;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEIEVNCCTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCCTAMASKPATIRWPKGN 181

RESULT 46
US-10-175-752-34
; Sequence 34, Application US/10175752
; Publication No. US20030022295A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C70
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-482-34

Query Match
Best Local Similarity 35.5%; Score 150; DB 14; Length 440;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEIEVNCCTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCCTAMASKPATIRWPKGN 181

RESULT 47
US-10-176-482-34
; Sequence 34, Application US/10176482
; Publication No. US20030022296A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C70
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-482-34

Query Match
Best Local Similarity 35.5%; Score 150; DB 14; Length 440;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEIEVNCCTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCCTAMASKPATIRWPKGN 181
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Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 48

US-10-176-757-34
; Sequence 34, Application US/10176757
; Publication No. US20030022297A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C86
; CURRENT APPLICATION NUMBER: US/10/176,757
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-757-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 49

US-10-176-913-34
; Sequence 34, Application US/10176913
; Publication No. US20030022298A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C66
; CURRENT APPLICATION NUMBER: US/10/176,913
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-913-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 50

US-10-180-552-34
; Sequence 34, Application US/10180552
; Publication No. US20030022300A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C153
; CURRENT APPLICATION NUMBER: US/10/180,552
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-180-552-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSLSNVISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165

```
Db 152 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 181
|||||
RESULT 51
US-10-180-557-34
; Sequence 34, Application US/10180557
; Publication No. US20030022301A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C147
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-180-557-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 135
Db 92 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 151
Qy 136 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 165
Db 152 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 181

RESULT 52
US-10-173-700-34
; Sequence 34, Application US/10173700
; Publication No. US2003002262A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C14
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-700-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 135
Db 92 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 151
Qy 136 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 165
Db 152 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 181

RESULT 53
US-10-174-572-34
; Sequence 34, Application US/10174572
; Publication No. US20030027263A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C40
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-572-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 135
Db 92 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 151
Qy 136 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 165
Db 152 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 181

RESULT 54
US-10-174-579-34
; Sequence 34, Application US/10174579
; Publication No. US20030027264A1
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; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C31
; CURRENT APPLICATION NUMBER: US/10/174,579
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-579-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 91

QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181

RESULT 55
US-10-174-582-34
; Sequence 34, Application US/10174582
; Publication No. US20030027265A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C36
; CURRENT APPLICATION NUMBER: US/10/174,582
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-582-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 91

QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181

RESULT 56
US-10-174-588-34
; Sequence 34, Application US/10174588
; Publication No. US20030027266A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C28
; CURRENT APPLICATION NUMBER: US/10/174,588
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-588-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 91

QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181

RESULT 57
US-10-175-739-34
; Sequence 34, Application US/10175739
; Publication No. US20030027267A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
US-10-175-739-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 91

QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181
```

```
; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C46
; CURRENT APPLICATION NUMBER: US/10/175,739
; CURRENT FILING DATE: 2002-06-19
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-739-34

Query Match          35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNPFSSSELKVSITNVSISDEGRYFCQLYTDPQESSYTTITVLVPPRNLMIDIQK 135
Db 92 DSRFQLNPFSSSELKVSITNVSISDEGRYFCQLYTDPQESSYTTITVLVPPRNLMIDIQK 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWPKGN 181

RESULT 58
US-10-175-740-34
; Sequence 34, Application US/10175740
; Publication No. US20030027268A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C52
; CURRENT APPLICATION NUMBER: US/10/175,743
; CURRENT FILING DATE: 2002-06-16
; PRIOR APPLICATION NUMBER: 10/052586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063564
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063734
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/063870
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066120
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066466
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066772
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: 1997-12-11
; PRIOR APPLICATION NUMBER: 60/069425
; PRIOR FILING DATE: 1997-12-12
; PRIOR APPLICATION NUMBER: 60/069870
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/068017
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/077450

RESULT 59
US-10-175-743-34
; Sequence 34, Application US/10175743
; Publication No. US20030027269A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C52
; CURRENT APPLICATION NUMBER: US/10/175,743
; CURRENT FILING DATE: 2002-06-16
; PRIOR APPLICATION NUMBER: 10/052586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063564
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063734
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/063870
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066120
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066466
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066772
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: 1997-12-11
; PRIOR APPLICATION NUMBER: 60/069425
; PRIOR FILING DATE: 1997-12-12
; PRIOR APPLICATION NUMBER: 60/069870
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/068017
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/077450

Query Match          35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNPFSSSELKVSITNVSISDEGRYFCQLYTDPQESSYTTITVLVPPRNLMIDIQK 135
Db 92 DSRFQLNPFSSSELKVSITNVSISDEGRYFCQLYTDPQESSYTTITVLVPPRNLMIDIQK 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWPKGN 181

RESULT 58
US-10-175-740-34
; Sequence 34, Application US/10175740
; Publication No. US20030027268A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C61
; CURRENT APPLICATION NUMBER: US/10/175,740
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-740-34

Query Match          35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNPFSSSELKVSITNVSISDEGRYFCQLYTDPQESSYTTITVLVPPRNLMIDIQK 135
Db 92 DSRFQLNPFSSSELKVSITNVSISDEGRYFCQLYTDPQESSYTTITVLVPPRNLMIDIQK 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWPKGN 181
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; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079786
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081070
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082569
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082797
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/083495
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083496
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; PRIOR APPLICATION NUMBER: 60/083499
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/086023
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/086392
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/086486
; PRIOR FILING DATE: 1998-05-22

;
; PRIOR APPLICATION NUMBER: 60/087098
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087208
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088722
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088740
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088811
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088825
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088863
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089090
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQGNLFKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDRPLK 75
|||||
Db 32 SAAALPTGQGNLFKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFFSSSELKVLSTNVSIISDRGYFCQLYTDPPQESYTTITVLVPPRNLMIDIQK 135

Db 92 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEEIEVNCMTAMASKPATIRWFKN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKN 181

RESULT 60

US-10-176-488-34
; Sequence 34, Application US/10176488
; Publication No. US20030027271A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C119
; CURRENT APPLICATION NUMBER: US/10/176,488
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-488-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEEIEVNCMTAMASKPATIRWFKN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKN 181

RESULT 61

US-10-176-492-34
; Sequence 34, Application US/10176492
; Publication No. US20030027272A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C107

; CURRENT APPLICATION NUMBER: US/10/176,492
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-492-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEEIEVNCMTAMASKPATIRWFKN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKN 181

RESULT 62

US-10-176-747-34
; Sequence 34, Application US/10176747
; Publication No. US20030027273A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C92
; CURRENT APPLICATION NUMBER: US/10/176,747
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-747-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEEIEVNCMTAMASKPATIRWFKN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKN 181

```
RESULT 63
US-10-176-750-34
; Sequence 34, Application US/10176750
; Publication No. US20030027274A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C103
; CURRENT APPLICATION NUMBER: US/10/176,750
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-750-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
DB 32 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
DB 92 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
DB 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 64
US-10-176-985-34
; Sequence 34, Application US/10176985
; Publication No. US20030027277A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C99
; CURRENT APPLICATION NUMBER: US/10/176,985
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-985-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
DB 32 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
DB 92 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
DB 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 65
US-10-176-987-34
; Sequence 34, Application US/10176987
; Publication No. US20030027278A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C93
; CURRENT APPLICATION NUMBER: US/10/176,987
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-987-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
DB 32 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
DB 92 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
DB 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 66
US-10-176-992-34
; Sequence 34, Application US/10176992
; Publication No. US20030027279A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
```


; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C122
; CURRENT APPLICATION NUMBER: US/10/176,991
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-991-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFKDVTVIEGEVATISCVQKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQGNLFKDVTVIEGEVATISCVQKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCNTAMASKPATIRWFKGN 181

RESULT 70
US-10-173-695-34
; Sequence 34, Application US/10173695
; Publication No. US20030032101A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C3
; CURRENT APPLICATION NUMBER: US/10/173,695
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-695-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFKDVTVIEGEVATISCVQKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQGNLFKDVTVIEGEVATISCVQKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCNTAMASKPATIRWFKGN 181

Db 152 DTAVEGEIEVNCNTAMASKPATIRWFKGN 181

RESULT 71
US-10-173-697-34
; Sequence 34, Application US/10173697
; Publication No. US20030032102A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C5
; CURRENT APPLICATION NUMBER: US/10/173,697
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-697-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFKDVTVIEGEVATISCVQKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQGNLFKDVTVIEGEVATISCVQKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCNTAMASKPATIRWFKGN 181

RESULT 72
US-10-173-705-34
; Sequence 34, Application US/10173705
; Publication No. US20030032103A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C18
; CURRENT APPLICATION NUMBER: US/10/173,705
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34

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; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-705-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCCTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEIEVNCCTAMASKPATTIRWFKGN 181

RESULT 73
US-10-174-576-34
; Sequence 34, Application US/10174576
; Publication No. US2003032104A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C23
; CURRENT APPLICATION NUMBER: US/10/174, 576
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-576-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCCTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEIEVNCCTAMASKPATTIRWFKGN 181

RESULT 74
US-10-174-585-34
; Sequence 34, Application US/10174585
; Publication No. US2003032105A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C24
; CURRENT APPLICATION NUMBER: US/10/174, 586
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-586-34
; Sequence 34, Application US/10174586
; Publication No. US2003032106A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C24
; CURRENT APPLICATION NUMBER: US/10/174, 586
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-586-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy	136	DTAVEGEEIEVNCNTAMASKPATTIRWFKGN	165
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Search completed: June 28, 2005, 10:39:10
Job time : 106.694 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 28, 2005, 10:08:59 ; Search time 29.341 Seconds
(without alignments)
1076.191 Million cell updates/sec

Title: US-10-622-237-4

Perfect score: 423

Sequence: 1 AAPPGLRLRLLLLLLSAAL.....TAIINAEQQGNSEKKEYF 423

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 513545 seqs, 74649064 residues

Word size : 0

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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3	150	35.5	440	4	US-09-944-457-61
4	150	35.5	442	4	US-09-778-510-20
5	150	35.5	442	4	US-09-930-803-1
6	15	3.5	41	4	US-09-060-767B-5
7	14	3.3	130	3	US-08-700-651-9
8	14	3.3	130	3	US-08-928-361B-14
9	14	3.3	130	4	US-09-588-995A-14
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136	10	2.4	1029	4	US-09-762-724-6	Sequence 11, Appl
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ALIGNMENTS

RESULT 1

US-09-778-510-22

Sequence 22, Application US/09778510

Patent No. 6512095

GENERAL INFORMATION:

APPLICANT: Baum, Peter

TITLE OF INVENTION: Molecules Designated B7L1

CURRENT APPLICATION NUMBER: US/09/778,510

CURRENT FILING DATE: 2001-02-07

PRIOR APPLICATION NUMBER: PCT/US99/17906

PRIOR FILING DATE: 1999-08-05

PRIOR APPLICATION NUMBER: 60/095,663

PRIOR FILING DATE: 1998-08-07

NUMBER OF SEQ ID NOS: 22

SOFTWARE: Patent in Ver. 2.0

SEQ ID NO 22

LENGTH: 423

TYPE: PRT

ORGANISM: Homo Sapien

TYPE: PRT

ORGANISM: Mus musculus

US-09-778-510-22

Query Match 100.0%; Score 423; DB 4; Length 423;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 421 EYF 423

Db 421 EYF 423

RESULT 2

US-09-866-028-61

Sequence 61, Application US/09866028

Patent No. 6642360

GENERAL INFORMATION:

APPLICANT: Baker, Kevin

APPLICANT: Botstein, David

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleone

APPLICANT: Pilvaroff, Ellen

APPLICANT: Gerritsen, Mary

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul

APPLICANT: Grimaldi, Christopher

APPLICANT: Gurney, Austin

APPLICANT: Hillan, Kenneth

APPLICANT: Kljavin, Ivar

APPLICANT: Napier, Mary

APPLICANT: Roy, Margaret

APPLICANT: Tumas, Daniel

APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

TITLE OF INVENTION: ACIDS ENCODING THE SAME

FILE REFERENCE: P2548P1C1

CURRENT APPLICATION NUMBER: US/09/866,028

CURRENT FILING DATE: 2001-05-25

Prior application data removed - consult PALM or file wrapper

NUMBER OF SEQ ID NOS: 120

SEQ ID NO 61

LENGTH: 440

TYPE: PRT

ORGANISM: Homo Sapien


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US-09-778-510-20
; Sequence 20, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-778-510-20

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Db 34 SAAALPTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNNRQTIYFRDPRPLK 93
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QY 76 DSRFQLNFSSELKVLNLSNVSISDEGRYFCQLYTPDPPQESYTTITVLVPPRNLMDIQK 135
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|
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Db 94 DSRFQLNFSSELKVLNLSNVSISDEGRYFCQLYTPDPPQESYTTITVLVPPRNLMDIQK 153
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QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
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Db 154 DTAVEGEIEVNCNTAMASKPATIRWFKGN 183
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RESULT 5
US-09-930-803-1
; Sequence 1, Application US/09930803
; Patent No. 6596493
; GENERAL INFORMATION:
; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
; APPLICANT: REEVES, Roger
; APPLICANT: YOSHINORI, Muramaki
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED DISORDERS
; FILE REFERENCE: JH01770-1
; CURRENT APPLICATION NUMBER: US/09/930,803
; CURRENT FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-930-803-1

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Best Local Similarity 100.0%; Pred. No. 4.3e-132; Indels 0; Gaps 0;
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Db 94 DSRFQLNFSSELKVLNLSNVSISDEGRYFCQLYTPDPPQESYTTITVLVPPRNLMDIQK 153
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QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
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Db 154 DTAVEGEIEVNCNTAMASKPATIRWFKGN 183
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RESULT 6
US-09-060-767B-5
; Sequence 5, Application US/09060767B
; Patent No. 6720152
; GENERAL INFORMATION:
; APPLICANT: Weil, Gary
; APPLICANT: Chandrashekar, Ramaswamy
; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for
; TITLE OF INVENTION: H.capsulatum
; FILE REFERENCE: BJCH 9986
; CURRENT APPLICATION NUMBER: US/09/060,767B
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/043,332
; PRIOR FILING DATE: 1997-04-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Leishmania
US-09-060-767B-5

Query Match      3.5%; Score 15; DB 4; Length 41;
Best Local Similarity 100.0%; Pred. No. 1.3e-06; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 0;

QY 321 PPTTTTTTTTTTTTTT 335
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Db 1 PPTTTTTTTTTTTTTT 15
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RESULT 7
US-08-700-651-9
; Sequence 9, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-9

Query Match      3.3%; Score 14; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 3.3e-05; Indels 0; Gaps 0;
Matches 14; Conservative 0; Mismatches 0;

QY 322 PPTTTTTTTTTTTTTT 335
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|
Db 48 PTTTTTTTTTTTTT 61
|
|
|

RESULT 8
US-08-928-361B-14
; Sequence 14, Application US/08928361B
; Patent No. 6071518
```

GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 130 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-14

Query Match 3.3%; Score 14; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 3.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTNTTTTTTTTT 335
Db 48 PTTTNTTTTTTTTT 61

RESULT 9
US-09-588-995A-14
; Sequence 14, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751

PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-14

Query Match 3.3%; Score 14; DB 4; Length 130;
Best Local Similarity 100.0%; Pred. No. 3.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTNTTTTTTTTT 335
Db 48 PTTTNTTTTTTTTT 61

RESULT 10
US-08-700-651-12
; Sequence 12, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-12

Query Match 3.3%; Score 14; DB 3; Length 175;
Best Local Similarity 100.0%; Pred. No. 4.4e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTNTTTTTTTTT 335
Db 87 PTTTNTTTTTTTTT 100

RESULT 11
US-08-928-361B-17
; Sequence 17, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:

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/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/928,361B
/ FILING DATE: 12-SEP-1997
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/026,062
/ FILING DATE: 13-SEP-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: VERNY, HANA
/ REGISTRATION NUMBER: 30,518
/ REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 650-324-1677
/ TELEFAX: 650-324-1678
/ INFORMATION FOR SEQ ID NO: 17:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 175 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-928-361B-17

Query Match 3.3%; Score 14; DB 3; Length 175;
Best Local Similarity 100.0%; Pred. No. 4.4e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 87 PTTTTTTTTTTTTT 100

RESULT 12
US-09-588-995A-17
/ Sequence 17, Application US/09588995A
/ Patent No. 6514697
/ GENERAL INFORMATION:
/ APPLICANT: PETERSEN, CAROLYN
/ APPLICANT: BARNES, DEBRA A.
/ APPLICANT: NELSON, RICHARD C.
/ APPLICANT: GUT, JIRI
/ TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
/ TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
/ TITLE OF INVENTION: INFECTIONS
/ FILE REFERENCE: 480.19-5
/ CURRENT APPLICATION NUMBER: US/09/588,995A
/ CURRENT FILING DATE: 2000-06-06
/ PRIOR FILING DATE: 08/827,171
/ PRIOR FILING DATE: 1997-03-27
/ PRIOR APPLICATION NUMBER: 08/928,361
/ PRIOR FILING DATE: 1997-09-12
/ PRIOR APPLICATION NUMBER: 08/700,651
/ PRIOR FILING DATE: 1996-08-14
/ PRIOR APPLICATION NUMBER: 08/415,751
/ PRIOR FILING DATE: 1995-04-03
/ NUMBER OF SEQ ID NOS: 115
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 17
/ LENGTH: 175
/ TYPE: PRT
/ ORGANISM: Cryptosporidium parvum
/ US-09-588-995A-17

Query Match 3.3%; Score 14; DB 4; Length 175;
Best Local Similarity 100.0%; Pred. No. 4.4e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 87 PTTTTTTTTTTTTT 100
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Db 87 PTTTTTTTTTTTTT 100

RESULT 13
US-09-248-796A-21069
/ Sequence 21069, Application US/09248796A
/ Patent No. 6747137
/ GENERAL INFORMATION:
/ APPLICANT: Keith Weinstock et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
/ TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
/ FILE REFERENCE: 107196.132
/ CURRENT APPLICATION NUMBER: US/09/248,796A
/ CURRENT FILING DATE: 1999-02-12
/ PRIOR APPLICATION NUMBER: US 60/074,725
/ PRIOR FILING DATE: 1998-02-13
/ PRIOR APPLICATION NUMBER: US 60/096,409
/ PRIOR FILING DATE: 1998-08-13
/ NUMBER OF SEQ ID NOS: 28208
/ SEQ ID NO 21069
/ LENGTH: 197
/ TYPE: PRT
/ ORGANISM: Candida albicans
/ US-09-248-796A-21069

Query Match 3.3%; Score 14; DB 4; Length 197;
Best Local Similarity 100.0%; Pred. No. 4.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTTTTTT 336
Db 113 TTTTTTTTTTTTTT 126

RESULT 14
US-08-928-361B-8
/ Sequence 8, Application US/08928361B
/ Patent No. 6071518
/ GENERAL INFORMATION:
/ APPLICANT: Petersen, Carolyn
/ TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
/ TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
/ TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
/ NUMBER OF SEQUENCES: 30
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: PETERS, VERNY, JONES & BIKSA
/ STREET: 385 Sherman Avenue, Suite 6
/ CITY: Palo Alto
/ STATE: CA
/ COUNTRY: USA
/ ZIP: 94306-1840
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/928,361B
/ FILING DATE: 12-SEP-1997
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/026,062
/ FILING DATE: 13-SEP-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: VERNY, HANA
/ REGISTRATION NUMBER: 30,518
/ REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 650-324-1677
/ TELEFAX: 650-324-1678
/ INFORMATION FOR SEQ ID NO: 8:
/ SEQUENCE CHARACTERISTICS:
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; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-8

Query Match 3.3%; Score 14; DB 3; Length 216;
Best Local Similarity 100.0%; Pred. No. 5.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 70 PTTTTTTTTTTTTT 83

RESULT 15

US-08-928-361B-27
; Sequence 27, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-27

Query Match 3.3%; Score 14; DB 3; Length 216;
Best Local Similarity 100.0%; Pred. No. 5.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 116 PTTTTTTTTTTTTT 129

RESULT 16

US-09-588-995A-8

; Sequence 8, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-8

Query Match 3.3%; Score 14; DB 4; Length 216;
Best Local Similarity 100.0%; Pred. No. 5.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 70 PTTTTTTTTTTTTT 83

RESULT 17

US-08-700-651-15
; Sequence 15, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-15

Query Match 3.3%; Score 14; DB 3; Length 249;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 165 PTTTTTTTTTTTTT 178

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RESULT 18
US-08-928-361B-20
; Sequence 20, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 249 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-20

Query Match 3.3%; Score 14; DB 3; Length 249;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 165 PTTTTTTTTTTTTT 178

RESULT 19
US-09-588-995A-20
; Sequence 20, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
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; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-20

Query Match 3.3%; Score 14; DB 4; Length 249;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 165 PTTTTTTTTTTTTT 178

RESULT 20
US-07-867-106-3
; Sequence 3, Application US/07867106
; Patent No. 5389526
; GENERAL INFORMATION:
; APPLICANT: Slade, Martin B
; APPLICANT: Chang, Andy C M
; APPLICANT: Williams, Keith L
; TITLE OF INVENTION: Improved Plasmid Vectors for Cellular
; TITLE OF INVENTION: Slime Moulds of the Genus Dictyostelium
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5389526ris
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/867,106
; FILING DATE: 19920625
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU PJ 7187
; APPLICATION NUMBER: PCT/AU90/00530
; FILING DATE: 02-NOV-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Feeney, Joanne Longo
; REGISTRATION NUMBER: 35,134
; REFERENCE/DOCKET NUMBER: RICE-0002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 887 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-867-106-3

Query Match 3.3%; Score 14; DB 1; Length 887;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
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Db      250 PTTTTTTTTTTT 263
|||||
RESULT 21
US-08-700-651-5
; Sequence 5, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700, 651B
; EARLIER APPLICATION NUMBER: 08/415, 751
; EARLIER FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1721
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-08-700-651-5

Query Match      3.3%; Score 14; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00036;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      322 PTTTTTTTTTTT 335
      |||||||
Db      307 PTTTTTTTTTTT 320

RESULT 22
US-08-928-361B-6
; Sequence 6, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928, 361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:

Db      250 PTTTTTTTTTTT 263
|||||
RESULT 23
US-09-588-995A-6
; Sequence 6, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1721
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-6

Query Match      3.3%; Score 14; DB 4; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00036;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      322 PTTTTTTTTTTT 335
      |||||||
Db      307 PTTTTTTTTTTT 320

RESULT 24
US-08-928-361B-5
; Sequence 5, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
```

STREET: 385 Sherman Avenue, Suite 6
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306-1840
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/928,361B
FILING DATE: 12-SEP-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/026,062
FILING DATE: 13-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: Verny, Hana
REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-1677
TELEFAX: 650-324-1678
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1837 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-928-361B-5

Query Match 3.3%; Score 14; DB 3; Length 1837;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 378 PTTTTTTTTTTTTT 391

RESULT 25
US-09-588-995A-5
; Sequence 5, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1837
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-5

Query Match 3.3%; Score 14; DB 4; Length 1837;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 378 PTTTTTTTTTTTTT 391

RESULT 26
US-09-205-258-953
; Sequence 953, Application US/09205258
; Patent No. 6525174
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/09/205,258
; CURRENT FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: PCT/US98/11422
; EARLIER FILING DATE: 1998-06-04
; EARLIER APPLICATION NUMBER: 60/048,885
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,375
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,881
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,880
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,896
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,020
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,876
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,895
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,884
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,894
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,971
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,964
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,882
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,899
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,893
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,900
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,901
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,892
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,915
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,019
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,970
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,972
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,916
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,373
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,875
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,374
; EARLIER FILING DATE: 1997-06-06


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; EARLIER APPLICATION NUMBER: 60/048,917
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,949
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,883
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,897
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,898
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,962
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,963
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,877
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,878
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/070,923
; EARLIER FILING DATE: 1997-12-18
; EARLIER APPLICATION NUMBER: 60/092,921
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 1227
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 953
; LENGTH: 44
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-205-258-953

Query Match          3.1%; Score 13; DB 4; Length 44;
Best Local Similarity 100.0%; Pred. No. 0.00011;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
Db 21 DADTAIINAEQQ 33

RESULT 27
US-08-900-230-59
; Sequence 59, Application US/08900230
; Patent No. 6329197
; GENERAL INFORMATION:
; APPLICANT: Bard, Jonathan A.
; TITLE OF INVENTION: DNA ENCODING GALANN GALR3 RECEPTORS AND
; TITLE OF INVENTION: USES THEREOF
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of The Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 11036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/08/900,230
; FILING DATE: 23-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM
; TELECOMMUNICATION INFORMATION:
```

```
; TELEPHONE: 212-278-0400
; TELEFAX: 212-391-0525
; INFORMATION FOR SEQ ID NO: 59:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 57 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: NO
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-900-230-59

Query Match          3.1%; Score 13; DB 3; Length 57;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTITTTTTTTTT 335
Db 1 TTTTITTTTTTTTT 13

RESULT 28
US-09-060-767B-9
; Sequence 9, Application US/09060767B
; Patent No. 6720152
; GENERAL INFORMATION:
; APPLICANT: Chandrasekar, Ramaswamy
; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for
; TITLE OF INVENTION: H capsulatum
; FILE REFERENCE: BUCH 9986
; CURRENT APPLICATION NUMBER: US/09/060,767B
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/043,332
; PRIOR FILING DATE: 1997-04-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 9
; LENGTH: 57
; TYPE: PRT
; ORGANISM: Histoplasma Capsulatum
US-09-060-767B-9

Query Match          3.1%; Score 13; DB 4; Length 57;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 320 PPPTTTTTTTTTTT 332
Db 16 PPPTTTTTTTTTTT 28

RESULT 29
US-09-248-796A-23083
; Sequence 23083, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 23083
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Candida albicans
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US-09-248-796A-23083

Query Match 3.1%; Score 13; DB 4; Length 63;
Best Local Similarity 100.0%; Pred. No. 0.00015;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 TTTT TTTT TTTT TTTT 334
|||||
Db 36 TTTT TTTT TTTT TTTT 48

RESULT 30

US-09-248-796A-25289
; Sequence 25289, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 25289
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-25289

Query Match 3.1%; Score 13; DB 4; Length 75;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
|||||
Db 7 TTTT TTTT TTTT TTTT 19

RESULT 31

US-08-700-651-14
; Sequence 14, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-14

Query Match 3.1%; Score 13; DB 3; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
|||||
Db 18 TTTT TTTT TTTT TTTT 30

RESULT 32

US-08-928-361B-19
; Sequence 19, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 91 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-19

Query Match 3.1%; Score 13; DB 3; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
|||||
Db 18 TTTT TTTT TTTT TTTT 30

RESULT 33

US-09-588-995A-19
; Sequence 19, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5

; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-19

Query Match 3.1%; Score 13; DB 4; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT 335
| | | | | | | | | |
Db 18 TTTT TTTT TTTT 30

RESULT 34
US-09-767-36192
; Sequence 36192, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36192
; LENGTH: 106
; TYPE: PRT
; ORGANISM: *Drosophila melanogaster*
US-09-767-36192

Query Match 3.1%; Score 13; DB 4; Length 106;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT 335
| | | | | | | | | |
Db 89 TTTT TTTT TTTT 101

RESULT 35
US-09-767-51409
; Sequence 51409, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51409
; LENGTH: 106
; TYPE: PRT
; ORGANISM: *Drosophila melanogaster*
US-09-767-51409

Query Match 3.1%; Score 13; DB 4; Length 106;

Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT 335
| | | | | | | | | |
Db 89 TTTT TTTT TTTT 101

RESULT 36
US-08-700-651-11
; Sequence 11, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 124
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-11

Query Match 3.1%; Score 13; DB 3; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00028;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT 335
| | | | | | | | | |
Db 33 TTTT TTTT TTTT 45

RESULT 37
US-08-928-361B-16
; Sequence 16, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062

```
/ FILING DATE: 13-SEP-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: VERNY, HANA
/ REGISTRATION NUMBER: 30,518
/ REFERENCE/DOCKET NUMBER: 480.76-1(HV)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 650-324-1677
/ TELEFAX: 650-324-1678
/ INFORMATION FOR SEQ ID NO: 16:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 124 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-08-928-361B-16

Query Match          3.1%; Score 13; DB 3; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00028;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 33 TTTTNTTTTTTTT 45

RESULT 38
US-09-588-995A-16
/ Sequence 16, Application US/09588995A
/ Patent No. 6514697
/ GENERAL INFORMATION:
/ APPLICANT: PETERSEN, CAROLYN
/ APPLICANT: BARNES, DEBRA A.
/ APPLICANT: NELSON, RICHARD C.
/ APPLICANT: GUT, JIRI
/ TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
/ TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
/ TITLE OF INVENTION: INFECTIONS
/ FILE REFERENCE: 480.19-5
/ CURRENT APPLICATION NUMBER: US/09/588,995A
/ CURRENT FILING DATE: 2000-06-06
/ PRIOR APPLICATION NUMBER: 08/827,171
/ PRIOR FILING DATE: 1997-03-27
/ PRIOR APPLICATION NUMBER: 08/928,361
/ PRIOR FILING DATE: 1997-09-12
/ PRIOR APPLICATION NUMBER: 08/700,651
/ PRIOR FILING DATE: 1996-08-14
/ PRIOR APPLICATION NUMBER: 08/415,751
/ PRIOR FILING DATE: 1995-04-03
/ NUMBER OF SEQ ID NOS: 115
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 16
/ LENGTH: 124
/ TYPE: PRT
/ ORGANISM: Cryptosporidium parvum
US-09-588-995A-16

Query Match          3.1%; Score 13; DB 4; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00028;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 33 TTTTNTTTTTTTT 45

RESULT 39
US-08-700-651-7
/ Sequence 7, Application US/08700651B
/ Patent No. 6015882
/ GENERAL INFORMATION:
/ APPLICANT: PETERSEN, CAROLYN
/ APPLICANT: LEECH, JAMES

/ FILING DATE: 13-SEP-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: VERNY, HANA
/ REGISTRATION NUMBER: 30,518
/ REFERENCE/DOCKET NUMBER: 480.76-1(HV)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 650-324-1677
/ TELEFAX: 650-324-1678
/ INFORMATION FOR SEQ ID NO: 12:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 128 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-08-700-651-7

Query Match          3.1%; Score 13; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 0.00028;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 37 TTTTNTTTTTTTT 49

RESULT 40
US-08-928-361B-12
/ Sequence 12, Application US/08928361B
/ Patent No. 6071518
/ GENERAL INFORMATION:
/ APPLICANT: Petersen, Carolyn
/ TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
/ TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
/ TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
/ TITLE OF INVENTION: SPECIES INFECTIONS
/ NUMBER OF SEQUENCES: 30
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: PETERS, VERNY, JONES & BIKSA
/ STREET: 385 Sherman Avenue, Suite 6
/ CITY: Palo Alto
/ STATE: CA
/ COUNTRY: USA
/ ZIP: 94306-1840
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/928,361B
/ FILING DATE: 12-SEP-1997
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/026,062
/ FILING DATE: 13-SEP-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: VERNY, HANA
/ REGISTRATION NUMBER: 30,518
/ REFERENCE/DOCKET NUMBER: 480.76-1(HV)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 650-324-1677
/ TELEFAX: 650-324-1678
/ INFORMATION FOR SEQ ID NO: 12:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 128 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
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US-08-928-361B-12

Query Match 3.1%; Score 13; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 0.00028;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
Db 37 TTTT TTTT TTTT TTTT 49

RESULT 41

US-09-588-995A-12
; Sequence 12, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI

; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS

; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 128
; TYPE: PRT

; ORGANISM: Cryptosporidium parvum
US-09-588-995A-12

Query Match 3.1%; Score 13; DB 4; Length 128;
Best Local Similarity 100.0%; Pred. No. 0.00028;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
Db 37 TTTT TTTT TTTT TTTT 49

RESULT 42

US-08-700-651-8
; Sequence 8, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI

; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS

; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 130
; TYPE: PRT

; ORGANISM: Cryptosporidium parvum

; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO.5
US-08-700-651-8

Query Match 3.1%; Score 13; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 0.00029;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
Db 39 TTTT TTTT TTTT TTTT 51

RESULT 43

US-08-928-361B-13
; Sequence 13, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn

; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS

; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996

; ATTORNEY/AGENT INFORMATION:
; NAME: Verty, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678

; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 130 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-13

Query Match 3.1%; Score 13; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 0.00029;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
Db 39 TTTT TTTT TTTT TTTT 51

RESULT 44

US-09-588-995A-13
; Sequence 13, Application US/09588995A
; Patent No. 6514697

```

; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-13

Query Match          3.1%; Score 13; DB 4; Length 130;
Best Local Similarity 100.0%; Pred. No. 0.00029;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 39 TTTTNTTTTTTT 51

RESULT 45
US-08-700-651-10
; Sequence 10, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-10

Query Match          3.1%; Score 13; DB 3; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00031;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 47 TTTTNTTTTTTT 59

, RESULT 46
```

```

US-08-928-361B-15
; Sequence 15, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 138 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-15

Query Match          3.1%; Score 13; DB 3; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00031;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 47 TTTTNTTTTTTT 59

RESULT 47
US-09-588-995A-15
; Sequence 15, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
```

; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-15

Query Match 3.1%; Score 13; DB 4; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00031;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT 335
|||||
Db 47 TTTT TTTT TTTT 59
|||||

RESULT 48
US-08-928-361B-18
; Sequence 18, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 150 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-18

Query Match 3.1%; Score 13; DB 3; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.00033;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT 335
|||||

Db 62 TTTT TTTT TTTT 74
|||||

RESULT 49
US-09-588-995A-18
; Sequence 18, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 150
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-18

Query Match 3.1%; Score 13; DB 4; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.00033;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT 335
|||||
Db 62 TTTT TTTT TTTT 74
|||||

RESULT 50
US-09-248-796A-21631
; Sequence 21631, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN;
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21631
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-21631

Query Match 3.1%; Score 13; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.00035;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 324 TTTT TTTT TTTT 336
|||||
Db 52 TTTT TTTT TTTT 64
|||||

RESULT 51
US-08-700-651-13
; Sequence 13, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-13

Query Match 3.1%; Score 13; DB 3; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.00035;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 76 TTTTNTTTTTTT 88

RESULT 52
US-09-248-796A-16058
; Sequence 16058, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 16058
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (204)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unkno
US-09-248-796A-16058

Query Match 3.1%; Score 13; DB 4; Length 207;
Best Local Similarity 100.0%; Pred. No. 0.00044;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 61 TTTTNTTTTTTT 73

RESULT 53

US-09-060-767B-3
; Sequence 3, Application US/09060767B
; Patent No. 6720152
; GENERAL INFORMATION:
; APPLICANT: Weil, Gary
; APPLICANT: Chandrashekar, Ramaswamy
; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for
; TITLE OF INVENTION: H. capsulatum
; FILE REFERENCE: BJCH 9986
; CURRENT APPLICATION NUMBER: US/09/060,767B
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/043,332
; PRIOR FILING DATE: 1997-04-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Histoplasma capsulatum
US-09-060-767B-3

Query Match 3.1%; Score 13; DB 4; Length 211;
Best Local Similarity 100.0%; Pred. No. 0.00045;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 320 PPPTTTTTTTTT 332
Db 37 PPPTTTTTTTTT 49

RESULT 54
US-09-248-796A-17391
; Sequence 17391, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17391
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (212)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknow
US-09-248-796A-17391

Query Match 3.1%; Score 13; DB 4; Length 216;
Best Local Similarity 100.0%; Pred. No. 0.00046;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 74 TTTTNTTTTTTTT 86

RESULT 55
US-09-248-796A-24111
; Sequence 24111, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 24111
LENGTH: 247
TYPE: PRT
ORGANISM: Candida albicans
US-09-248-796A-24111

Query Match 3.1%; Score 13; DB 4; Length 247;
Best Local Similarity 100.0%; Pred. No. 0.00052;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
| | | | | | | | | |
Db 58 TTTT TTTT TTTT TTTT 70

RESULT 56
US-09-216-393B-341
Sequence 341, Application US/09216393B
Patent No. 6514694
GENERAL INFORMATION:
APPLICANT: Milhausen, Michael James
TITLE OF INVENTION: TOXOPLASMA GONDII PROTEINS, NUCLEIC ACID MOLECULES, AND USES THEREOF
FILE REFERENCE: TX-1-C2
CURRENT APPLICATION NUMBER: US/09/216,393B
CURRENT FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: 08/994,825
PRIOR FILING DATE: 1997-12-19
NUMBER OF SEQ ID NOS: 366
SOFTWARE: PatentIn version 3.1
SEQ ID NO 341
LENGTH: 288
TYPE: PRT
ORGANISM: Toxoplasma gondii
US-09-216-393B-341

Query Match 3.1%; Score 13; DB 4; Length 288;
Best Local Similarity 100.0%; Pred. No. 0.0006;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
| | | | | | | | | |
Db 164 TTTT TTTT TTTT TTTT 176

RESULT 57
US-09-216-393B-344
Sequence 344, Application US/09216393B
Patent No. 6514694
GENERAL INFORMATION:
APPLICANT: Milhausen, Michael James
TITLE OF INVENTION: TOXOPLASMA GONDII PROTEINS, NUCLEIC ACID MOLECULES, AND USES THEREOF
FILE REFERENCE: TX-1-C2
CURRENT APPLICATION NUMBER: US/09/216,393B
CURRENT FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: 08/994,825
PRIOR FILING DATE: 1997-12-19
NUMBER OF SEQ ID NOS: 366
SOFTWARE: PatentIn version 3.1
SEQ ID NO 344
LENGTH: 288
TYPE: PRT
ORGANISM: Toxoplasma gondii
US-09-216-393B-344

Query Match 3.1%; Score 13; DB 4; Length 288;

Best Local Similarity 100.0%; Pred. No. 0.0006;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
| | | | | | | | | |
Db 164 TTTT TTTT TTTT TTTT 176

RESULT 58
US-09-248-796A-25055
Sequence 25055, Application US/09248796A
Patent No. 6747137
GENERAL INFORMATION:
APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 25055
LENGTH: 292
TYPE: PRT
ORGANISM: Candida albicans
FEATURE:
NAME/KEY: UNSURE
LOCATION: (287), (288), (289)
OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-25055

Query Match 3.1%; Score 13; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.00061;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
| | | | | | | | | |
Db 95 TTTT TTTT TTTT TTTT 107

RESULT 59
US-09-778-510-4
Sequence 4, Application US/09778510
Patent No. 6512095
GENERAL INFORMATION:
APPLICANT: Baum, Peter
TITLE OF INVENTION: Molecules Designated B7L1
FILE REFERENCE: 2844-US
CURRENT APPLICATION NUMBER: US/09/778,510
CURRENT FILING DATE: 2001-02-07
PRIOR APPLICATION NUMBER: PCT/US99/17906
PRIOR FILING DATE: 1999-08-05
PRIOR APPLICATION NUMBER: 60/095,663
PRIOR FILING DATE: 1998-08-07
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 398
TYPE: PRT
ORGANISM: Mus musculus
US-09-778-510-4

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
| | | | | | | | | |
Db 375 DADTAIINAEQQ 387

```
RESULT 60
US-09-778-510-6
; Sequence 6, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-778-510-6

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
Db 375 DADTAIINAEQQ 387

RESULT 61
US-09-907-794A-84
; Sequence 84, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
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; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-794A-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
Db 375 DADTAIINAEQQ 387

RESULT 62
US-09-905-125A-84
; Sequence 84, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
```

; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/905/125A

; CURRENT FILING DATE: 2001-07-12

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/28565

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/00219

; PRIOR FILING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 84

; LENGTH: 398

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-905-125A-84

Query Match 3.1%; Score 13; DB 4; Length 398;

Best Local Similarity 100.0%; Pred. No. 0.00081;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 401 DADTAIINAEQQG 413

|||||

Db 375 DADTAIINAEQQG 387

RESULT 63

US-09-902-775A-84

; Sequence 84, Application US/09902775A

; Patent No. 6686451

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Deenoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Goddard, A.

; APPLICANT: Goddard, A.

; APPLICANT: Goddard, A.

; APPLICANT: Goddard, A.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/902/775A

; CURRENT FILING DATE: 2001-07-10

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/28565

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/00219

; PRIOR FILING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 84

; LENGTH: 398

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-902-775A-84

Query Match 3.1%; Score 13; DB 4; Length 398;

Best Local Similarity 100.0%; Pred. No. 0.00081;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 401 DADTAIINAEQQG 413

|||||

Db 375 DADTAIINAEQQG 387

RESULT 64

US-09-906-700-84

; Sequence 84, Application US/09906700

; Patent No. 6723535

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Deenoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Goddard, A.

; APPLICANT: Goddard, A.

; APPLICANT: Goddard, A.

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-906-700-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 401 DADTAIINAEGGQ 413
|||||
Db 375 DADTAIINAEGGQ 387
RESULT 65
US-09-903-603A-84
; Sequence 84, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: GNE.1618P2C12
; CURRENT APPLICATION NUMBER: US/09/903,603A
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-603A-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 401 DADTAIINAEQQ 413
| | | | | | | | | |
Db 375 DADTAIINAEQQ 387

RESULT 66

US-09-904-920A-84
; Sequence 84, Application US/09904920A
; Patent No. 6806352
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,920A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-920A-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 401 DADTAIINAEQQ 413
| | | | | | | | | |
Db 375 DADTAIINAEQQ 387

RESULT 67

US-09-909-064-84
; Sequence 84, Application US/09909064
; Patent No. 6818449
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,064
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222

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; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-064-84
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Query Match          3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
Db 375 DADTAIINAEQQ 387
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RESULT 68
US-09-905-381A-84
; Sequence 84, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: KJavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
```

```
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-381A-84

Query Match          3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
Db 375 DADTAIINAEQQ 387
|||||
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RESULT 69
US-09-906-618-84
; Sequence 84, Application US/09906618
; Patent No. 6828146
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
```

APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,618
CURRENT FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 84
LENGTH: 398
TYPE: PRT
ORGANISM: Homo sapiens
US-09-906-618-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 401 DADTAIINAEQQ 413
Db 375 DADTAIINAEQQ 387

RESULT 70
US-08-659-984A-1
Sequence 1, Application US/08659984A
Patent No. 5942400
GENERAL INFORMATION:
APPLICANT: Anderson, John P.

APPLICANT: Sinha, Sukanto
APPLICANT: Jacobson-Croak, Kirsten L.
TITLE OF INVENTION: Assays for Detecting Beta-Secretase
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/659,984A
FILING DATE: 07-JUN-1996
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,152
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002810US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 421 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-659-984A-1

Query Match 3.1%; Score 13; DB 2; Length 421;
Best Local Similarity 100.0%; Pred. No. 0.00085;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 285 LNKTDNGTYRCEA 297
Db 272 LNKTDNGTYRCEA 284

RESULT 71
US-08-660-531-1
Sequence 1, Application US/08660531
Patent No. 6221645
GENERAL INFORMATION:
APPLICANT: Chrysler, Susanna M.S.
APPLICANT: Sinha, Sukanto
APPLICANT: Keim, Pamela S.
APPLICANT: Anderson, John P.
TITLE OF INVENTION: Beta-Secretase
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

```
; APPLICATION NUMBER: US/08/660,531
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/480,498
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heelin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002210US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-660-531-1

Query Match 3.1%; Score 13; DB 3; Length 421;
Best Local Similarity 100.0%; Pred. No. 0.00085;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 285 LNKTDNGTYRCEA 297
Db 272 LNKTDNGTYRCEA 284

RESULT 72
US-09-778-510-2
; Sequence 2, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 432
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-778-510-2

Query Match 3.1%; Score 13; DB 4; Length 432;
Best Local Similarity 100.0%; Pred. No. 0.00087;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
Db 409 DADTAIINAEQQ 421

RESULT 73
US-08-659-984A-5
; Sequence 5, Application US/08659984A
; Patent No. 5942400
; GENERAL INFORMATION:
; APPLICANT: Anderson, John P.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Jacobson-Croak, Kirsten L.
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; PRIOR APPLICATION DATA:
; NUMBER OF SEQUENCES: 21
```

```
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/659,984A
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heelin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 444 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-659-984A-5

Query Match 3.1%; Score 13; DB 2; Length 444;
Best Local Similarity 100.0%; Pred. No. 0.00089;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 285 LNKTDNGTYRCEA 297
Db 295 LNKTDNGTYRCEA 307

RESULT 74
US-08-660-531-5
; Sequence 5, Application US/08660531
; Patent No. 6221645
; GENERAL INFORMATION:
; APPLICANT: Chrysler, Susanna M.S.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Keim, Pamela S.
; APPLICANT: Anderson, John P.
; TITLE OF INVENTION: Beta-Secretase
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,531
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/480,498
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; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heelin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002210US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 444 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-660-531-5

Query Match      3.1%; Score 13; DB 3; Length 444;
Best Local Similarity 100.0%; Pred.No. 0.00089;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 285 LNKTDNGTYRCEA 297
Db 295 LNKTDNGTYRCEA 307
|||||

RESULT 75
US-09-248-796A-22504
; Sequence 22504, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 22504
; LENGTH: 543
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-22504

Query Match      3.1%; Score 13; DB 4; Length 543;
Best Local Similarity 100.0%; Pred.No. 0.0011;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTITTTTTTTT 335
Db 372 TTTTITTTTTTTT 384
|||||

Search completed: June 28, 2005, 10:22:32
Job time : 31.341 secs
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